- 1. A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- 2. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- 3. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- 4. PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- 5. STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- 6. PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- 7. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- 10. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
- 11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- 12. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- 13. PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- 14. ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS.
- 15. ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS: 2% MAX CROSS SLOPES AND12:1 MAX LONGITUDINAL SLOPES.
- 16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- 17. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- 18. THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- 19. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)
- 20. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

COMPANY CONTACT

CONFLICT REVIEW

TRAFFIC MGMT. CENTER

CONFLICT REVIEW

CONFLICT REVIEW

CONFLICT REVIEW

DATE SUBMITTED

10/07/20

10/07/20

10/07/20

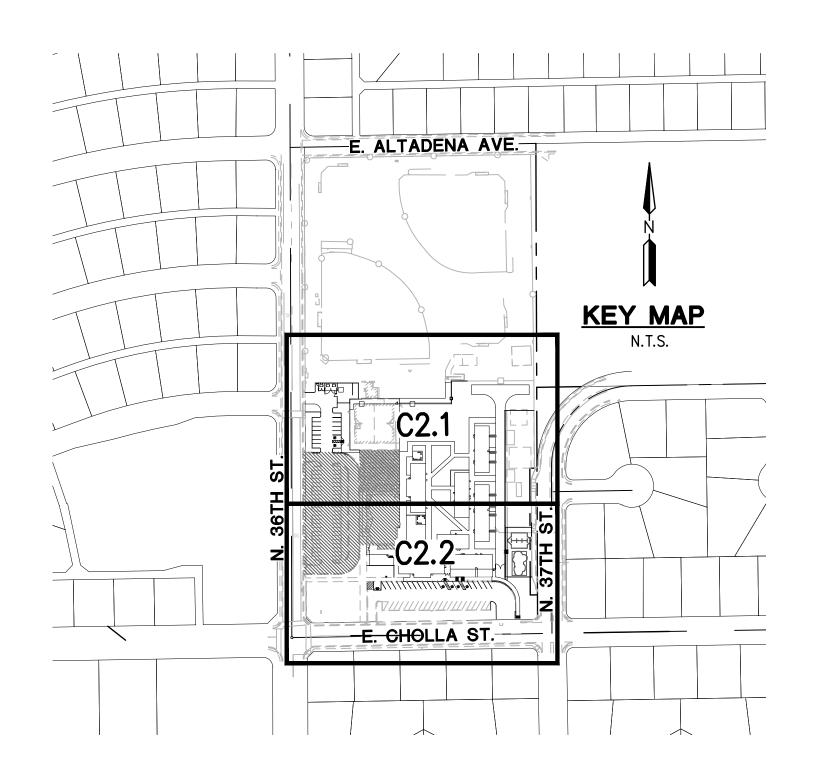
10/07/20

10/07/20

## GRADING & DRAINAGE PLAN ROADRUNNER SCHOOL - PVUSD

PHOENIX, ARIZONA 85028

A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



#### SITE AREA

LOT AREA GROSS: 518.834 S.F. 11.91 ACRES LOT AREA NET: 473,586 S.F. 10.87 ACRES

#### **DISTURBED AREA**

154,354 3.54 ACRES

#### SHEET INDEX

GRADING AND DRAINAGE PLAN - COVER SHEET

C1.1 NOTES AND DETAILS

C1.2 CROSS SECTIONS

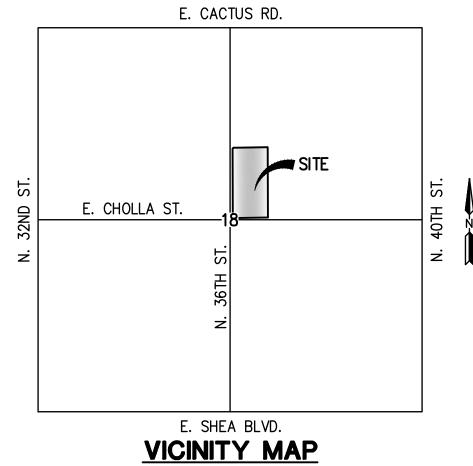
EXISTING CONDITION AND DEMOLITION PLAN \* C1.3

C1.4 STORM DRAIN DETAILS

C2.0 OVERALL GRADING AND DRAINAGE PLAN

C2.1 - C2.2GRADING AND DRAINAGE PLAN

★ "SHEET FOR REFERENCE ONLY"



#### **OWNER**

PARADISE VALLEY SCHOOL DISTRICT 20621 N. 32ND ST. PHOENIX, ARIZONA 85050 PH: (602) 449-2260 CONTACT: LES THOMPSON

### **ARCHITECT**

SPS+ ARCHITECTS, LLP 8681 E. VIA DE NEGOCIO SCOTTSDALE, AZ 85258 PH: (480) 991-0800 FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

### **ENGINEER**

HILGARTWILSON 1830 N. 95TH AVE. SUITE 110 PHOENIX, ARIZONA 85016 PHONE: (623) 248-3456 FAX: (602) 368-2436 CONTACT: LOGAN HOPP

**BASIS OF BEARING** 

BASIS OF BEARING IS \$89°04'11'W ALONG THE

SOUTH LINE OF THE NORTHEAST QUARTER OF

SECTION 24, TOWNSHIP 3 NORTH, RANGE 3

#### **BENCHMARK**

BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. CITY OF PHOENIX BENCHMARK ELEVATION: 1402.723'

DATUM: NGVD29

NEW BUILDINGS.

CHANCE FLOOD.

#### EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA.

LEGAL DESCRIPTION

PROJECT DESCRIPTION REMOVAL OF EXISTING BUILDING AND CONSTRUCTION OF 7 NEW BUILDINGS. NEW STORM DRAIN TO BE INSTALLED WITH

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA

### FLOOD ZONE DESIGNATION

AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COVERAGE FOR THE PROJECT ON FIRM PANEL 04013C1755L (FEMA. OCTOBER 16, 2013). ACCORDING TO THIS FIRM THE PROJECT RESIDES ENTIRELY WITHIN A FLOOD HAZARD ZONE X. FEMA DEFINES THIS FLOOD HAZARD ZONE AS FOLLOWS: AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL

#### **AS-BUILT CERTIFICATION**

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

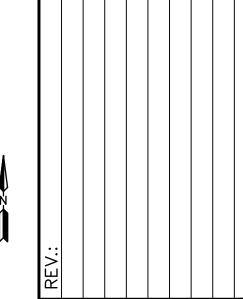
REGISTERED ENGINEER/LAND SURVEYOR DATE

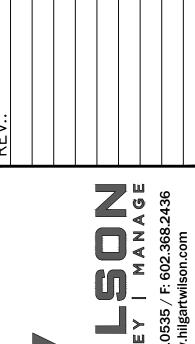
REGISTRATION NUMBER

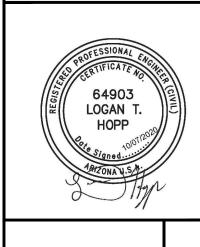
TRACKING NUMBERS: SDEV#

CPGD# Q.S.# 30-36









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PLAN

DRAINAGE

AND

GRADING

DWG. NO.

U:\2200\2242\ENGR\PLANS\GRADING\2242.01 - C1.0 CVR.dwg 10/7/2020 10:16 AM

UTILITY COMPANY

SOUTHWEST GAS CORPORATION

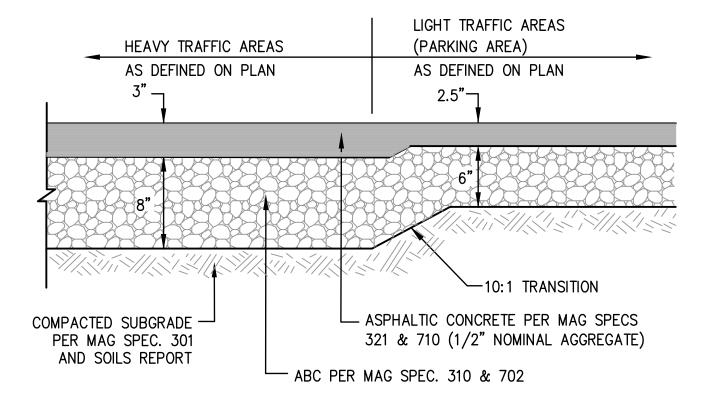
COX COMMUNICATIONS

CENTURY LINK

ZAYO

ARIZONA PUBLIC SERVICE

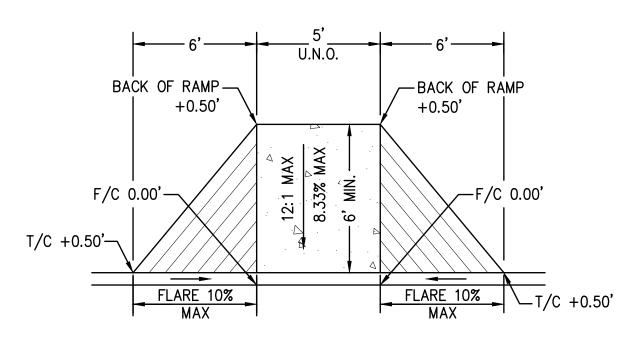
- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION, AS PREPARED BY RAMM & ASSOCIATES, INC., PHONE NO. (480) 921-8100, PROJECT NO. G26796, DATED SEP 23, 2020.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, EXISTING SITE IMPROVEMENTS,
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR. THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING. PRIOR TO COMMENCEMENT OF GRADING. PAVING. CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- O. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- 12. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- 13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- 14. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- 16. FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, RIP RAP, ETC.).
- 17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.



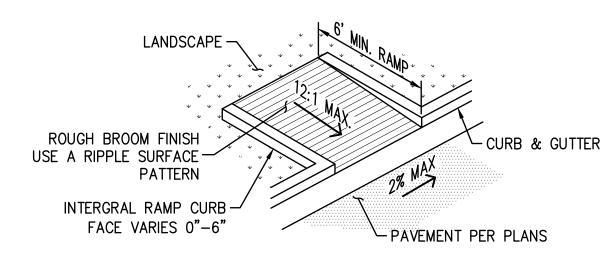
### TYPICAL PAVEMENT SECTION AND TRANSITION FROM HEAVY TO LIGHT

6" CONCRETE, CLASS A, REINFORCED WITH 6X6-W2.9 X W2.9 WELDED WIRE MESH LA LA HALL 4" ABC PER MAG SPEC. 310 & 702 12" COMPACTED SUBGRADE PER MAG SPEC. 301. AND C.O.P. SPECS.

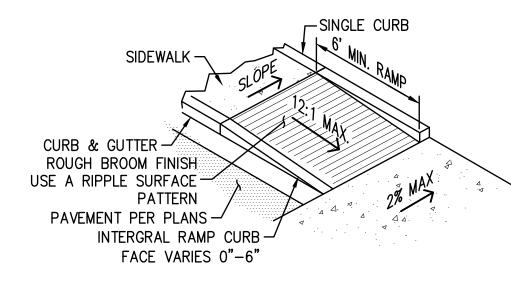
### PAVEMENT SECTION DETAIL



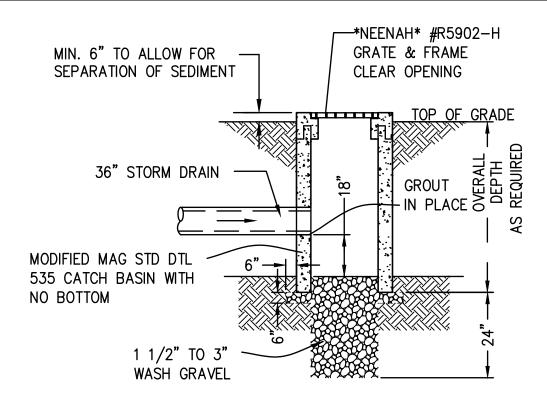
### SIDEWALK RAMP DETAIL



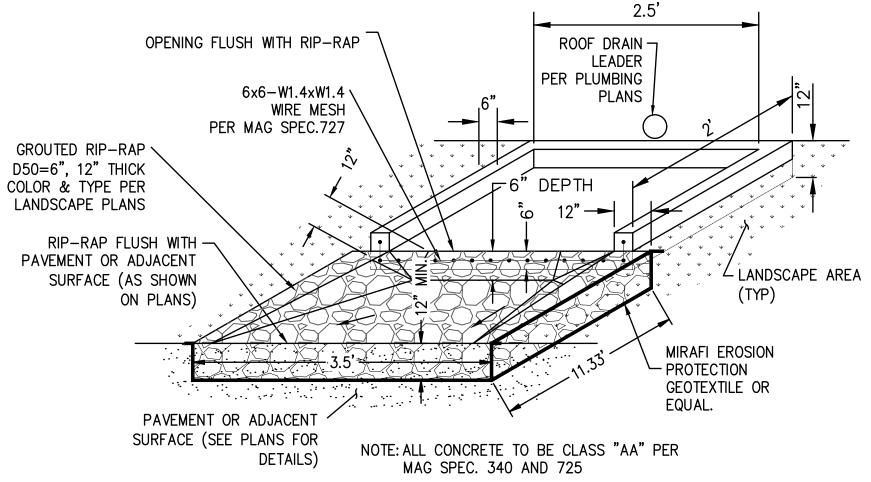
### (4) SIDEWALK RAMP DETAIL



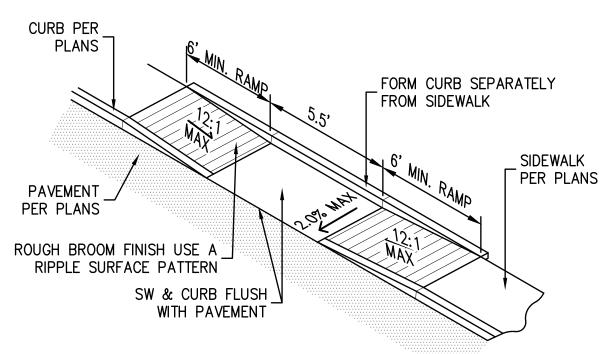
### SIDEWALK RAMP DETAIL



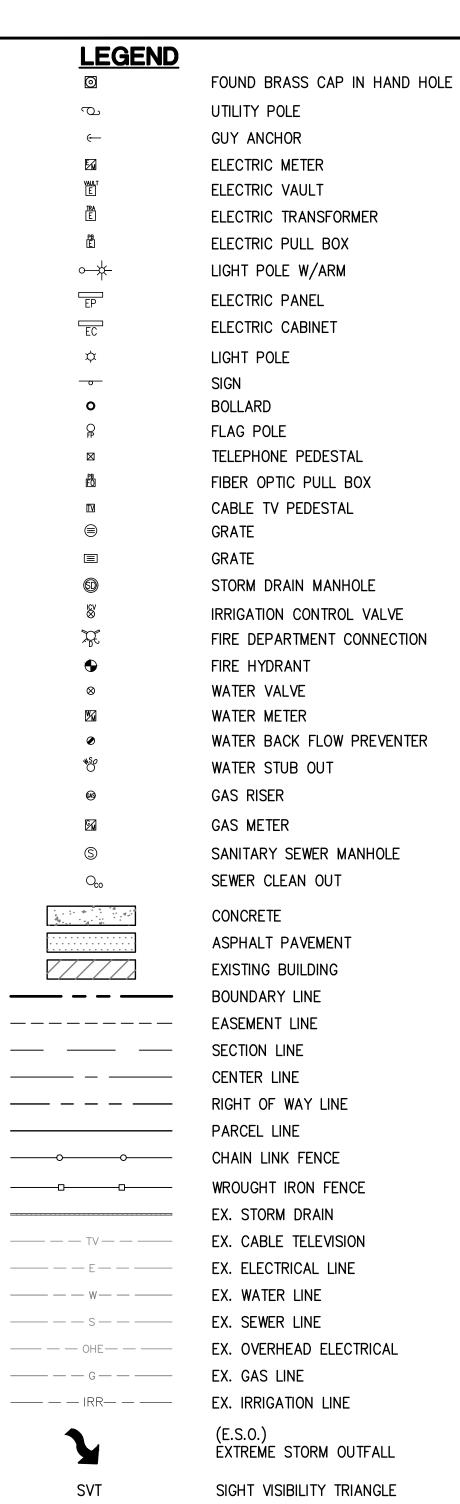
### **BUBBLER BOX DETAIL**



### **CONCRETE SPLASH PAD DETAIL**



### 8 SIDEWALK RAMP DETAIL





TRACKING NUMBERS: KIVA# SDEV# CPGD#

Q.S.# 30-36

SCALE:

**DESIGNED:** 



#### ROADRUNNER SCHOOL - PVUSD 3602 E. CHOLLA ST.

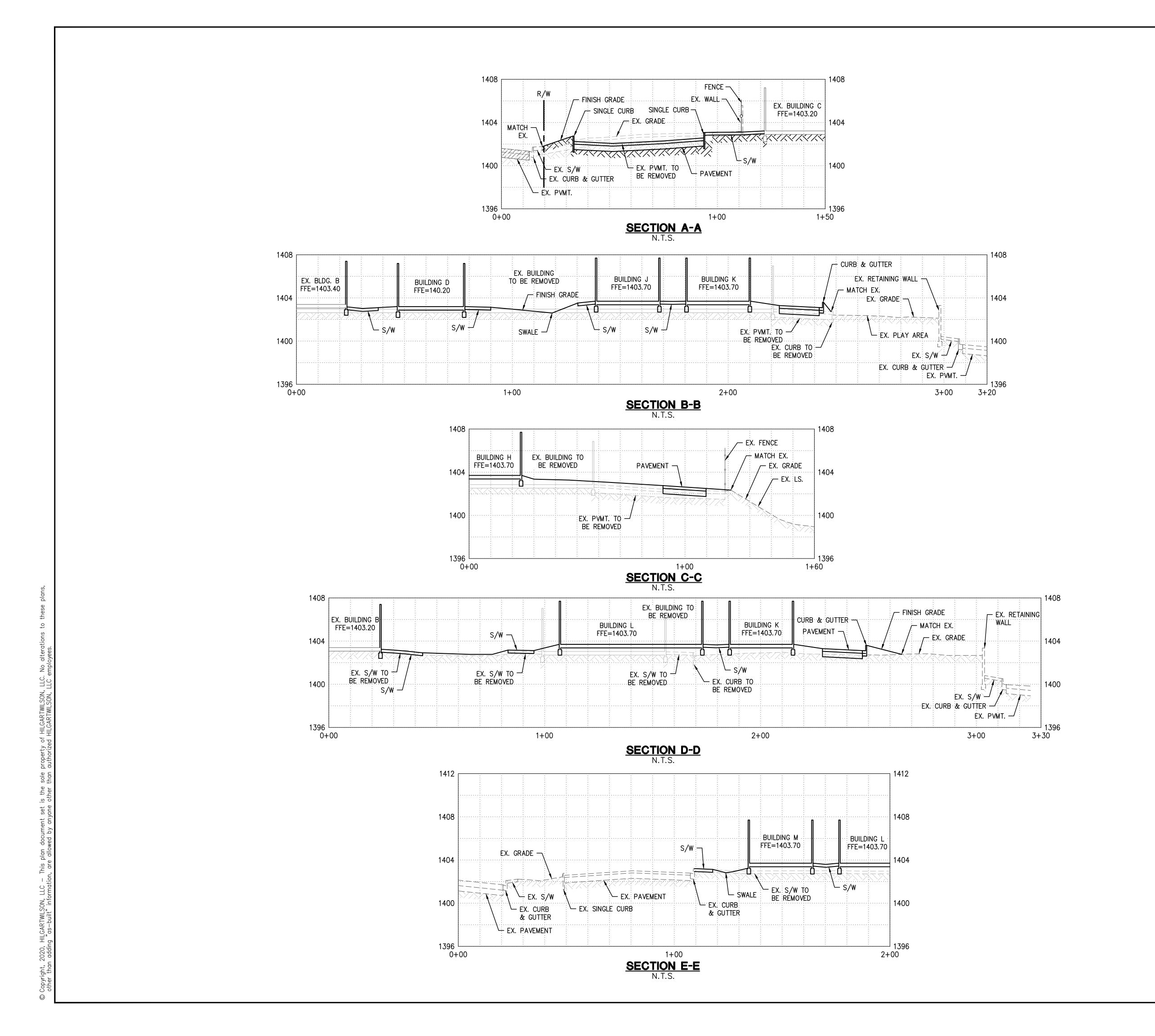
PHOENIX, ARIZONA 85028

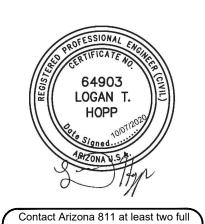
NOTES & DETAILS PROJ. NO. 2242.0 OCT 2020 DATE:

HILGARTWILSON

DB DRAWN: APPROVED: DWG. NO. C1.

SHT. 2 OF 8 U:\2200\2242\ENGR\PLANS\GRADING\2242.01 - C1.1 NOTES & DTLS.dwg 10/7/2020 10:17 AM





TRACKING NUMBERS: KIVA# SDEV# CPGD# Q.S.# 30-36



#### ROADRUNNER SCHOOL - PVUSD 3602 E. CHOLLA ST.

PHOENIX, ARIZONA 85028

CROSS SECTIONS

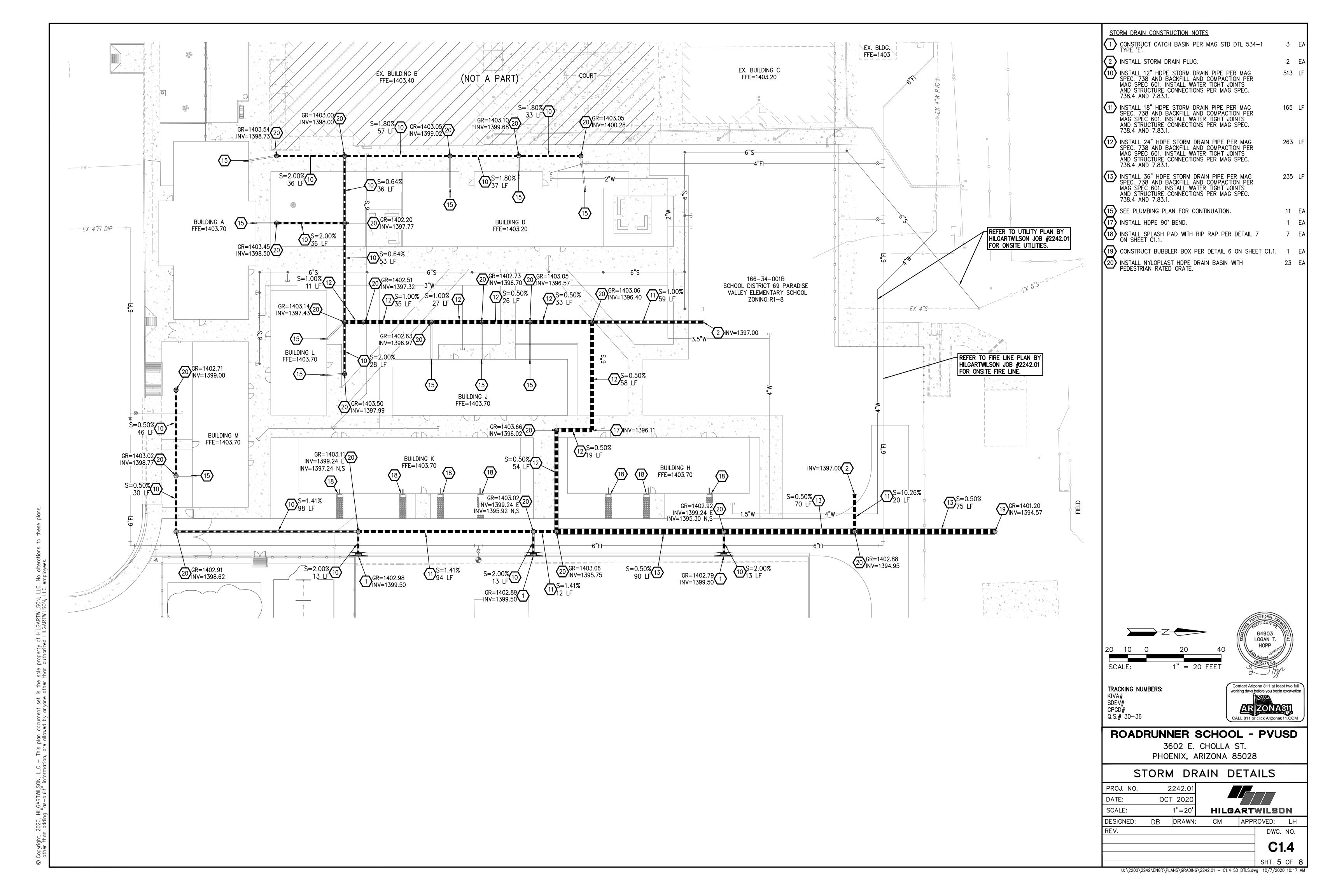
2242.01 PROJ. NO. OCT 2020

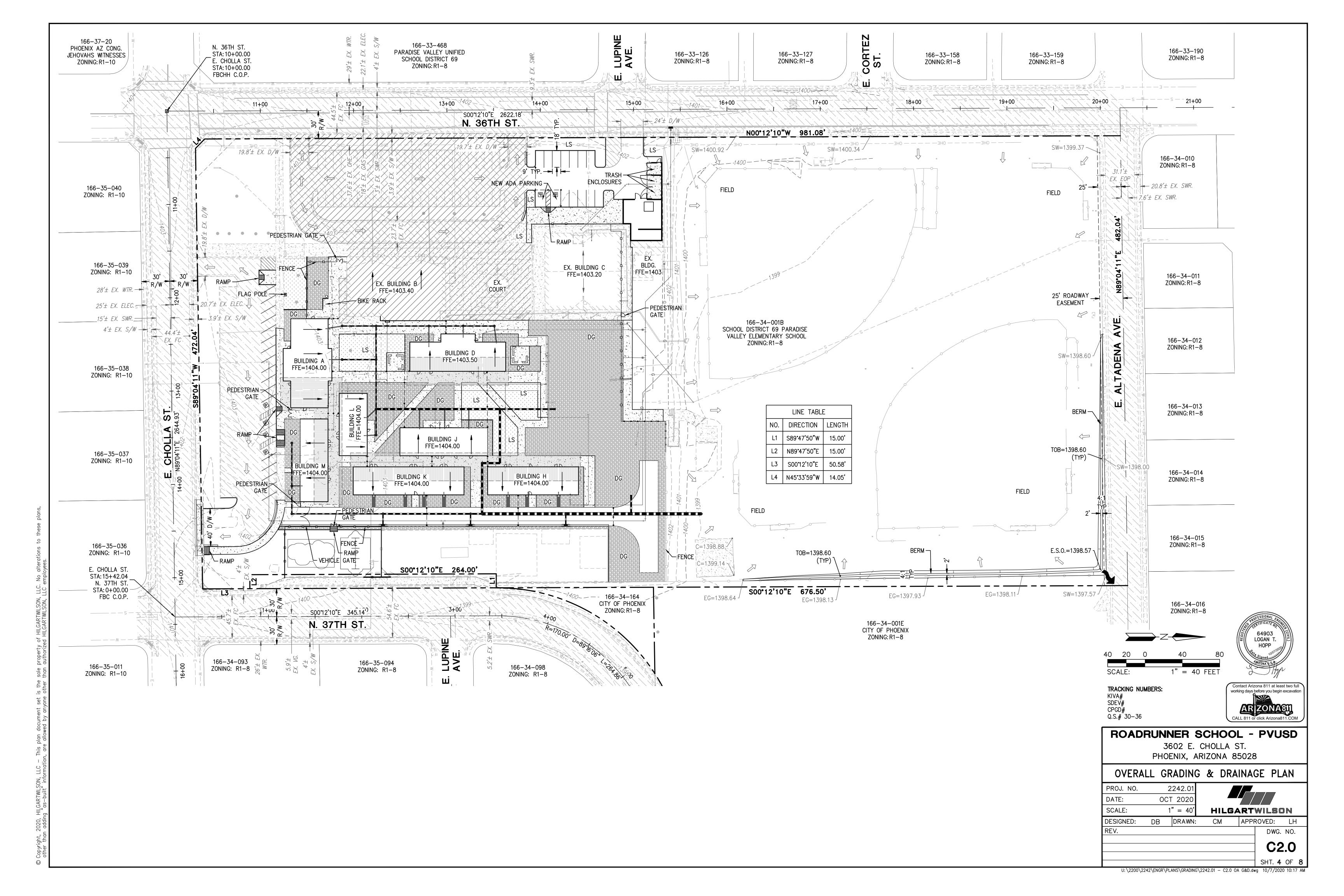
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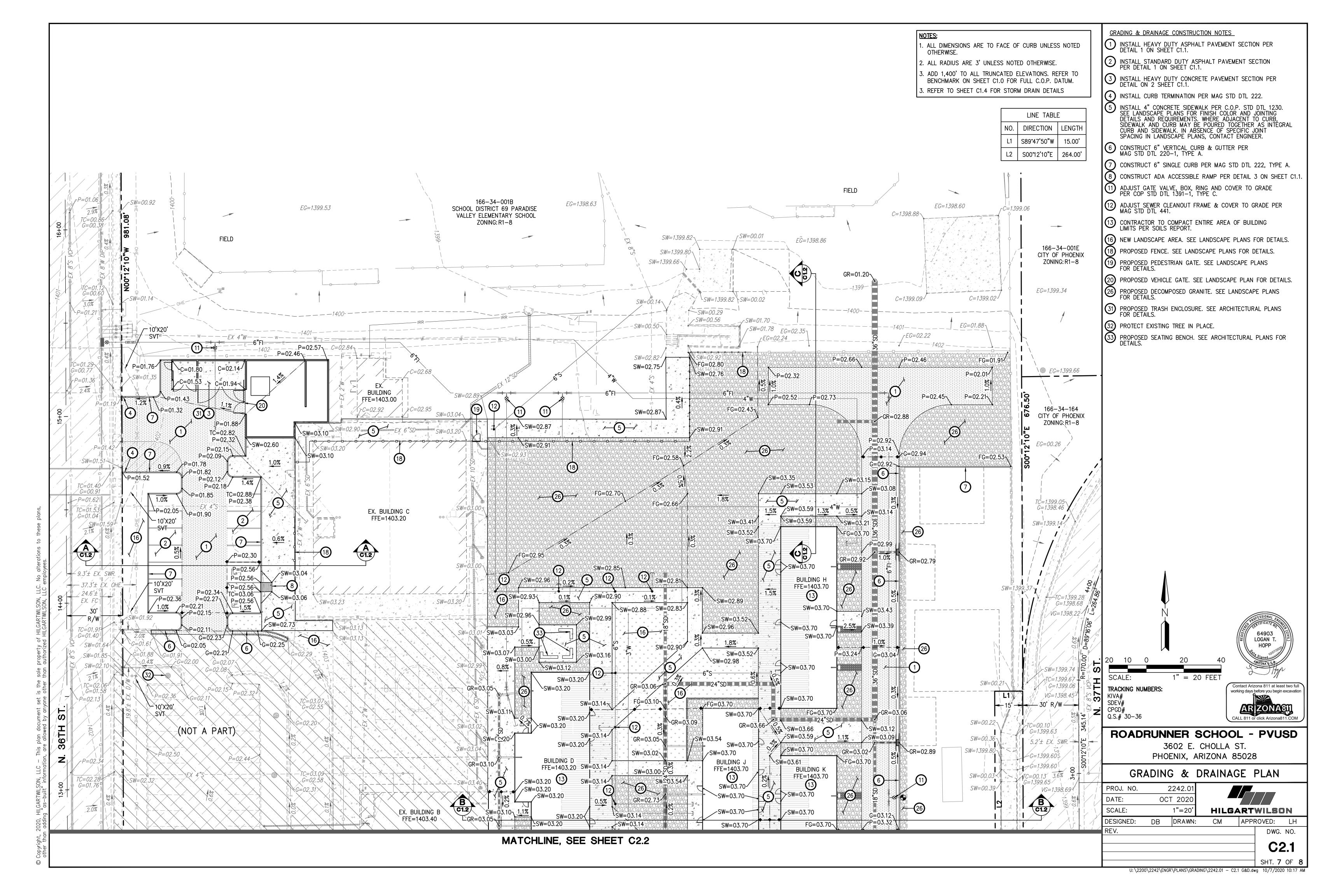
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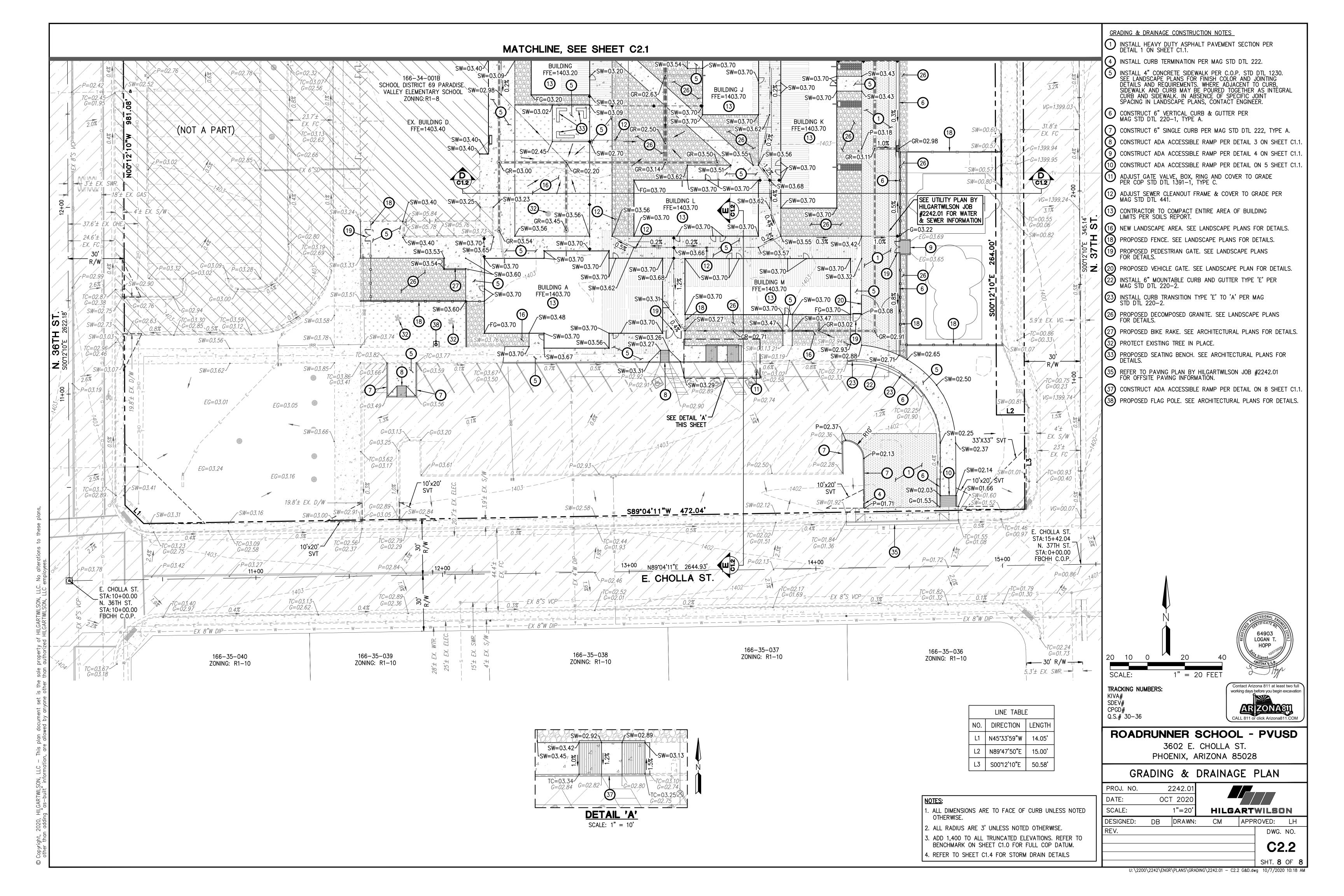
DWG. NO. C1.2 SHT. 3 OF 8

U:\2200\2242\ENGR\PLANS\GRADING\2242.01 - C1.2 SECTIONS.dwg 10/7/2020 10:17 AM









- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION, AS PREPARED BY RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC., PHONE NO. (480) 921-8100, PROJECT NO. 26796, DATED SEP 23, 2020.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, EXISTING SITE IMPROVEMENTS,
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF. IN THE OPINION OF THE SURVEYOR. THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- 10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION. OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- 12. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- . CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- 14. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- . FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, RIP RAP,
- 17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.

FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.

UTILITY COMPANY

SOUTHWEST GAS CORPORATION

COX COMMUNICATIONS

SALT RIVER PROJECT

CENTURY LINK

ARIZONA PUBLIC SERVICE

THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES

COMPANY CONTACT

CONFLICT REVIEW

TRAFFIC MGMT. CENTER

CONFLICT REVIEW

CONFLICT REVIEW

CONFLICT REVIEW

DATE SUBMITTED

10/07/20

10/07/20

10/07/20

10/07/20

10/07/20

## UTILITY PLAN ROADRUNNER SCHOOL - PVUSD

PHOENIX, ARIZONA 85028

A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

#### SEWER GENERAL NOTES. (C.O.P.)

- NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- 2. ANY SEWER MAIN 15 INCH IN SIZE OR 12 FEET IN DEPTH, OR GREATER, REQUIRES 5' 2. ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX DETAIL P1391, TYPE A ONLY. MANHOLES.
- ALL MANHOLES NEWLY CONSTRUCTED OR EXISTING THAT ARE WORKED IN FOR CONNECTIONS SHALL BE PAINTED WITH INSECTICIDE PAINT PER CITY OF PHOENIX SUPPLEMENT TO M.A.G. SECTION 627.
- MANHOLES WITH 60" DIAMETER AND PIPES GREATER THAN 12" REQUIRE COATING PER C.O.P. SUPPLEMENT 626. ANY EXISTING MANHOLES WITH CORROSION COATING THAT ARE DISTURBED OR ADJUSTED TO NEW FINISH GRADES SHALL HAVE ANY DAMAGED COATING REPAIRED. INCLUDING ALL ADJUSTING RINGS.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF PHOENIX. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW, HOWEVER, SHALL NOT DICTATE THE CITY OF PHOENIX'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF PHOENIX FROM REQUIRING THAT ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S)/CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT-OF-WAY, OR EASEMENT, TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS. UNLESS MODIFIED ON THE PLANS.
- ALL SEWER MAINS MUST HAVE A T.V. INSPECTION BEFORE ACCEPTED AS COMPLETE (SEE CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATION SECTION 615.11(C).
- TRAFFIC REGULATIONS: ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL.
- FRAME AND COVER.
- 10. NEW MANHOLES ARE TO BE BUILT WITHOUT STEPS.
- 11. COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601 & CITY OF PHOENIX SUPPLEMENTS.
- 12. NEW SEWER LINES ARE TO BE BUILT IN STANDARD UTILITY LOCATIONS.
- 13. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN. SEWER SERVICE. WATER MAIN. OR WATER SERVICE TO OUTSIDE OF UNDERGROUND UTILITY.
- A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
- 15. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER MAIN OR STORM DRAIN MAIN CROSSING UNDER A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
- EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION. ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 17. ANY AND ALL MORE STRINGENT SEPARATION REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- ANY SEWER LINES THAT ARE INSTALLED WITH LESS THAN .004 FT/FT SLOPE MUST BE INSTALLED USING A LASER.
- 19. WHEN DIP SEWER PIPE IS USED, LINING IS REQUIRED PER CITY OF PHOENIX SUPPLEMENT TO M.A.G. SEC. 750.1.
- 20. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- RECORD DRAWING SUBMITTALS MUST COMPLY WITH WATER SERVICES DEPARTMENT ENGINEERING POLICY P-69. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTP: //PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML
- "PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSE OF THE PROJECT. (THIS NOTE IS REQUIRED ON ALL SHEETS).
- 23. A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
- 24. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

#### WATER GENERAL NOTES. (C.O.P.

- 1. PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE 1. PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE 602-262-7811.

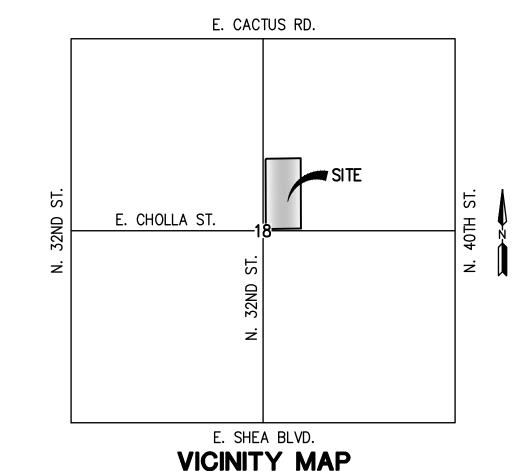
  - 3. ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT-OF-WAY, OR EASEMENT, IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.
  - 4. ALL DUCTILE IRON PIPE WATER MAIN VALVES, FITTINGS, AND BENDS SHALL BE RESTRAINED RESTRAINED JOINT REQUIREMENTS AND APPROVED RESTRAINING SYSTEM ARE SHOWN IN CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS, SECTION 750.3. THE LENGTH OF THE RESTRAINTS MUST BE PER M.A.G. STANDARD DETAIL 303-1 AND 303-2. THRUST BLOCKS ARE NOT ALLOWED TO BE USED IN LIEU OF APPROVED RESTRAINED JOINT SYSTEMS. THRUST BLOCKS CAN BE USED IN ADDITION TO THE APPROVED RESTRAINED JOINT SYSTEMS WHERE A SPECIFIC CITY OF PHOENIX SUPPLEMENT TO M.A.G. STANDARD DETAIL CALLS OUT FOR THRUST BLOCKING, SUCH AS CURRENT DETAILS, P1343, P1351, AND 1360 OR WHEN OTHERWISE APPROVED BY THE WATER SERVICES DEPARTMENT.
  - THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
    - 302-1 JOINT RESTRAINT WITH TIE RODS
    - 302-2 JOINT RESTRAINT WITH TIE RODS ANCHOR BLOCKS
    - 321 STANDARD WATER METER VAULT
    - 345-1 3", 4", AND 6" WATER METER
    - 345-2 4" AND 6" WATER METER WITH ON-SITE FIRE HYDRANTS
    - 370 VERTICAL REALIGNMENT OF WATER MAINS 381 ANCHOR BLOCKS FOR VERTICAL BENDS
    - 390 CURB STOP WITH FLUSHING PIPE
    - 391-1 VALVE BOX INSTALLATION
  - 6. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF PHOENIX SUPPLEMENTS.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED: 425 24" ALUMINUM 7. NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS"
  - 8. THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF PHOENIX. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF PHOENIX'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF PHOENIX FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
  - PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.
  - 10. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL"
  - THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
  - 12. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN. SEWER SERVICE. WATER MAIN, OR WATER SERVICE TO OUTSIDE OF UNDERGROUND UTILITY.
  - 13. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
  - 14. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER MAIN AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
  - 15. EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION. ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION
  - 16. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
  - 17. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN. WATER SERVICES AT THE END OF CUL-DESACS MAY VARY AS NECESSARY, BUT WILL BE APPROVED ON A CASE BY CASE
  - 18. ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
  - 19. NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
  - REPLACED IN KIND PRIOR TO FINAL INSPECTION. 21. RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING

20. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND

- POLICY P-68. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTP: //PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML 22. IN ACCORDANCE WITH AAC R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION
- STANDARDS 60 AND 61. 23. PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE
- COVER SHEET) 24. A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.

INFORMATION FOR THE PURPOSE OF THE PROJECT." (NOTE IS REQUIRED ON ALL SHEETS INCLUDING

25. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.



LOT AREA NET: 473,586 S.F. 10.87 ACRES

SITE AREA

LOT AREA GROSS:

SHEET INDEX

UTILITY PLAN - COVER SHEET UTILITY PLAN

**OWNER ARCHITECT** PARADISE VALLEY SCHOOL DISTRICT SPS+ ARCHITECTS, LLP 20621 N. 32ND ST. PHOENIX, ARIZONA 85050 PH: (602) 449-2260 CONTACT: LES THOMPSON

518,834 S.F. 11.91 ACRES

8681 E. VIA DE NEGOCIO SCOTTSDALE, AZ 85258 PH: (480) 991-0800 FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

1830 N. 95TH AVE. SUITE 110 PHOENIX, ARIZONA 85016 PHONE: (623) 248-3456 FAX: (602) 368-2436 CONTACT: LOGAN HOPP

N.T.S.

**ENGINEER** 

HILGARTWILSON

#### **BENCHMARK**

BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. CITY OF PHOENIX BENCHMARK

**ELEVATION: 1402.723'** DATUM: NGVD29

#### **BASIS OF BEARING**

BASIS OF BEARING IS S89'04'11'W ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA.

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

#### PROJECT DESCRIPTION

LEGAL DESCRIPTION

CONSIST NEW DOMESTIC WATER LINE & BUILDING CONNECTIONS. IN ADDITION TO NEW SEWER CONNECTION WITH 6" LINE. CLEANOUTS. AND BUILDING CONNECTION.

#### APPROVED FOR: **CITY OF PHOENIX**

COUNTY HEALTH DELEGATE PLANNING & DEVELOPMENT DEPARTMENT

#### AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NUMBER

#### **CITY OF PHOENIX**

THESE PLANS HAVE BEEN APPROVED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR THE ISSUANCE OF THE FOLLOWING PERMIT(S):

SEWER \_\_\_\_\_ PH \_\_\_\_ DATE \_\_\_\_\_

Q.S.# 30-36 Contact Arizona 811 at least two fu working days before you begin excavation

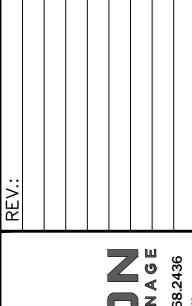
TRACKING NUMBERS:

KIVA#

SDEV#

CCPR#

LPRM#

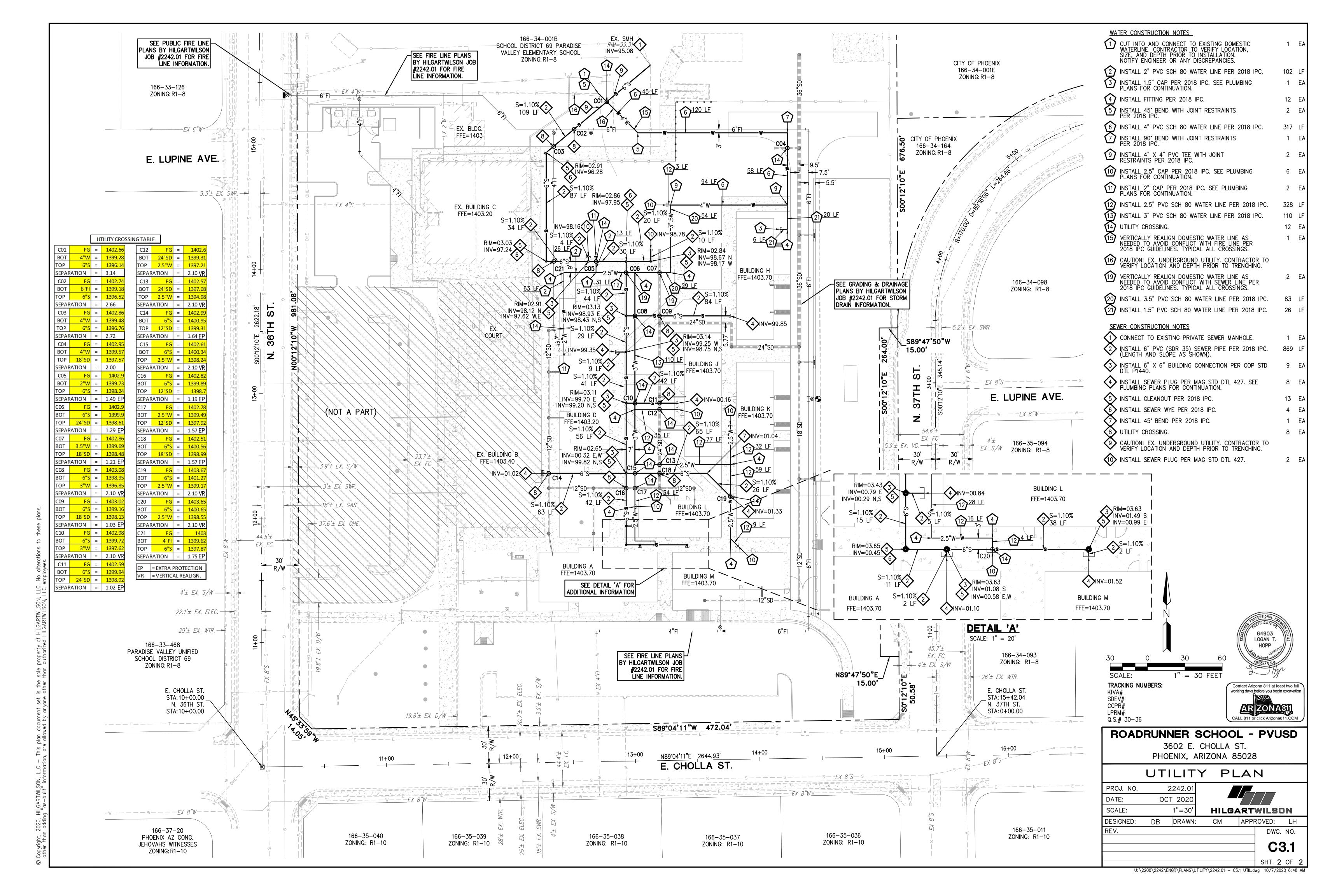




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DWG. NO.

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- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- 2. THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- 3. ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION. AS PREPARED BY RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC., PHONE NO. (480) 921-8100, PROJECT NO. 26796, DATED SEP 23, 2020.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, EXISTING SITE IMPROVEMENTS,
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- 9. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- 10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY. AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION. OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- 2. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- . CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES. STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- . FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, RIP RAP, ETC.).
- 17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY

FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.

UTILITY COMPANY

SOUTHWEST GAS CORPORATION

COX COMMUNICATIONS

SALT RIVER PROJECT

CENTURY LINK

ARIZONA PUBLIC SERVICE

THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES

COMPANY CONTACT

CONFLICT REVIEW

TRAFFIC MGMT. CENTER

CONFLICT REVIEW

CONFLICT REVIEW

CONFLICT REVIEW

DATE SUBMITTED

10/07/20

10/07/20

10/07/20

10/07/20

10/07/20

#### FIRE LINE GENERAL NOTES (C.O.P.) 1. ALL CONSTRUCTION IN CITY OF PHOENIX R.O.W. IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS

MODIFIED ON THE PLANS. PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY

CONSTRUCTION BEGINS TELEPHONE (602) 262-7811.

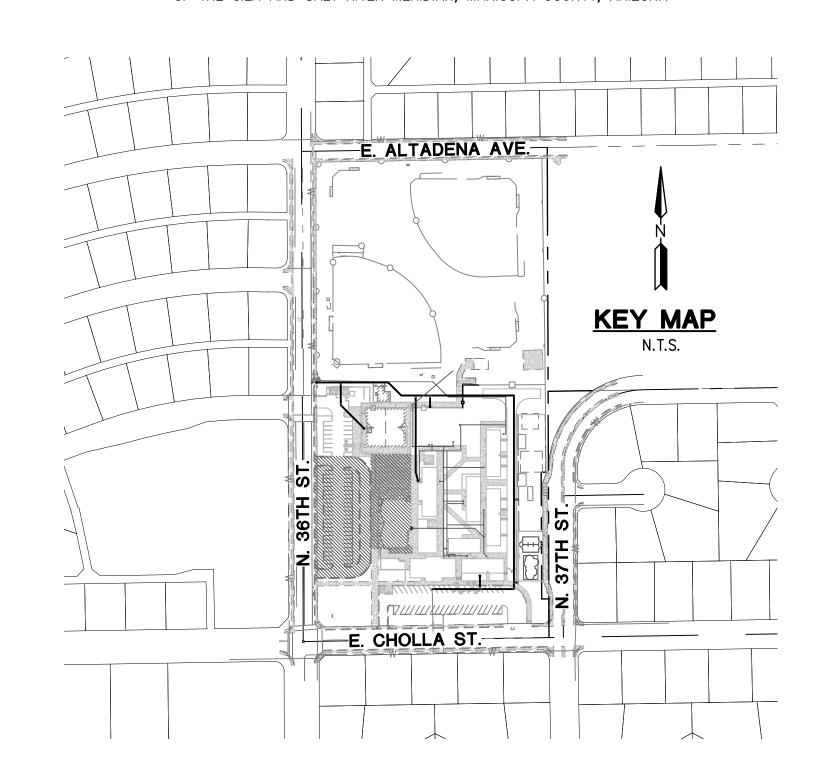
- IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRE LINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING AND DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES DEPARTMENT.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
- 390 CURB STOP WITH FLUSHING PIPE
- 391-1 VALVE BOX INSTALLATION
- 346 FIRE LINE DETECTOR CHECK VAULT
- (8") X 2" TAPPED CAP WITH 2" CORP. STOP AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.
- 6. FIRE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- 7. BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA - MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTERS SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC - FCCCHR). PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.
- BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT-OF-WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHOENIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.
- 10. IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE. PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.
- 11. LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTER AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM. PER UPC 603.3.11.
- 12. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL
- 13. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX R.O.W., WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.
- 14. MINIMUM COVERAGE OVER THE TOP OF PIPE SHALL BE FOUR (4) FEET IF THE MAIN IS LOCATED IN A MAJOR STREET OR THE MAIN IS 12" OR LARGER. OTHERWISE, THREE (3) FEET OF COVER OVER THE TOP OF THE PIPE IS REQUIRED.
- 15. COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601, 95% MINIMUM IN A PUBLIC STREET.
- 16. A PAVEMENT CUT SURCHARGE MAY BE ASSESSED ON THIS PROJECT FOR NEW PAVEMENT CUTS FOR TRENCHING IN NEW ASPHALT PAVEMENT.
- 17. APPROVAL OF THESE PLANS SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE OR OTHER HEALTH/SAFETY ISSUE.
- 18. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION. ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

### REMOTE 4"X2-1/2"X2-1/2" -THREADED COUPLING ➤ 4" CHECK VALVE GROUND LEVEL~ REMOTE F.D.C. DETAIL

## FIRE LINE PLAN ROADRUNNER SCHOOL - PVUSD

PHOENIX, ARIZONA 85028

A PORTION OF THE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



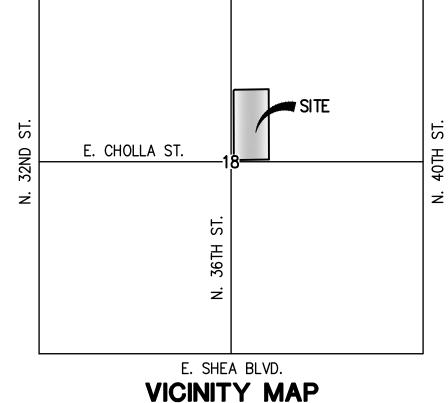
#### SITE AREA

LOT AREA GROSS:

**OWNER** 

LOT AREA NET:

518.834 S.F. 11.91 ACRES 473.586 S.F. 10.87 ACRES



N.T.S.

**ENGINEER** 

1830 N. 95TH AVE. SUITE 110

PHOENIX, ARIZONA 85016

PHONE: (623) 248-3456

FAX: (602) 368-2436

CONTACT: LOGAN HOPP

BASIS OF BEARING IS S89'04'11'W ALONG THE

SOUTH LINE OF THE NORTHEAST QUARTER OF

SECTION 24, TOWNSHIP 3 NORTH, RANGE 3

EAST OF THE GILA AND SALT RIVER MERIDIAN,

HILGARTWILSON

**BASIS OF BEARING** 

MARICOPA COUNTY, ARIZONA.

E. CACTUS RD.

#### SHEET INDEX

FIRE LINE PLAN - COVER SHEET

C4.1 FIRE LINE PLAN

PARADISE VALLEY SCHOOL DISTRICT SPS+ ARCHITECTS, LLP 20621 N. 32ND ST. 8681 E. VIA DE NEGOCIO PHOENIX, ARIZONA 85050 PH: (602) 449-2260

SCOTTSDALE, AZ 85258 PH: (480) 991-0800 CONTACT: LES THOMPSON FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

#### **BENCHMARK**

BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. CITY OF PHOENIX BENCHMARK

**ELEVATION: 1402.723** DATUM: NGVD29

CHANCE FLOOD.

#### LEGAL DESCRIPTION

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN. MARICOPA COUNTY. ARIZONA

ARCHITECT

#### PROJECT DESCRIPTION

CONSIST OF REMOVAL OF EXISTING FDC AND ADDITION OF NEW REMOTE FDC, NEW 6" CONNECTION IN 36TH ST. AND NEW 6" FIRELINE LOOP AROUND SITE WITH 4" FIRELINE CONNECTIONS TO BUILDINGS.

#### FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COVERAGE FOR THE PROJECT ON FIRM PANEL 04013C1755L (FEMA, OCTOBER 16, 2013). ACCORDING TO THIS FIRM THE PROJECT RESIDES ENTIRELY WITHIN A FLOOD HAZARD ZONE X. FEMA DEFINES THIS FLOOD HAZARD ZONE AS FOLLOWS: AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL

#### AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

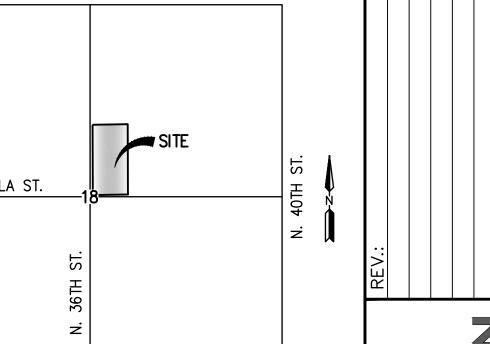
DATE REGISTERED ENGINEER/LAND SURVEYOR REGISTRATION NUMBER

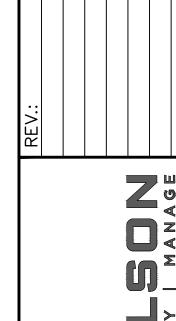
#### APPROVED FOR THE CITY OF PHOENIX

PLANNING AND DEVELOPMENT DEPARTMENT

TRACKING NUMBERS: KIVA# CCPH# CPFL# Q.S.# 30-36

> Contact Arizona 811 at least two fu working days before you begin excavation











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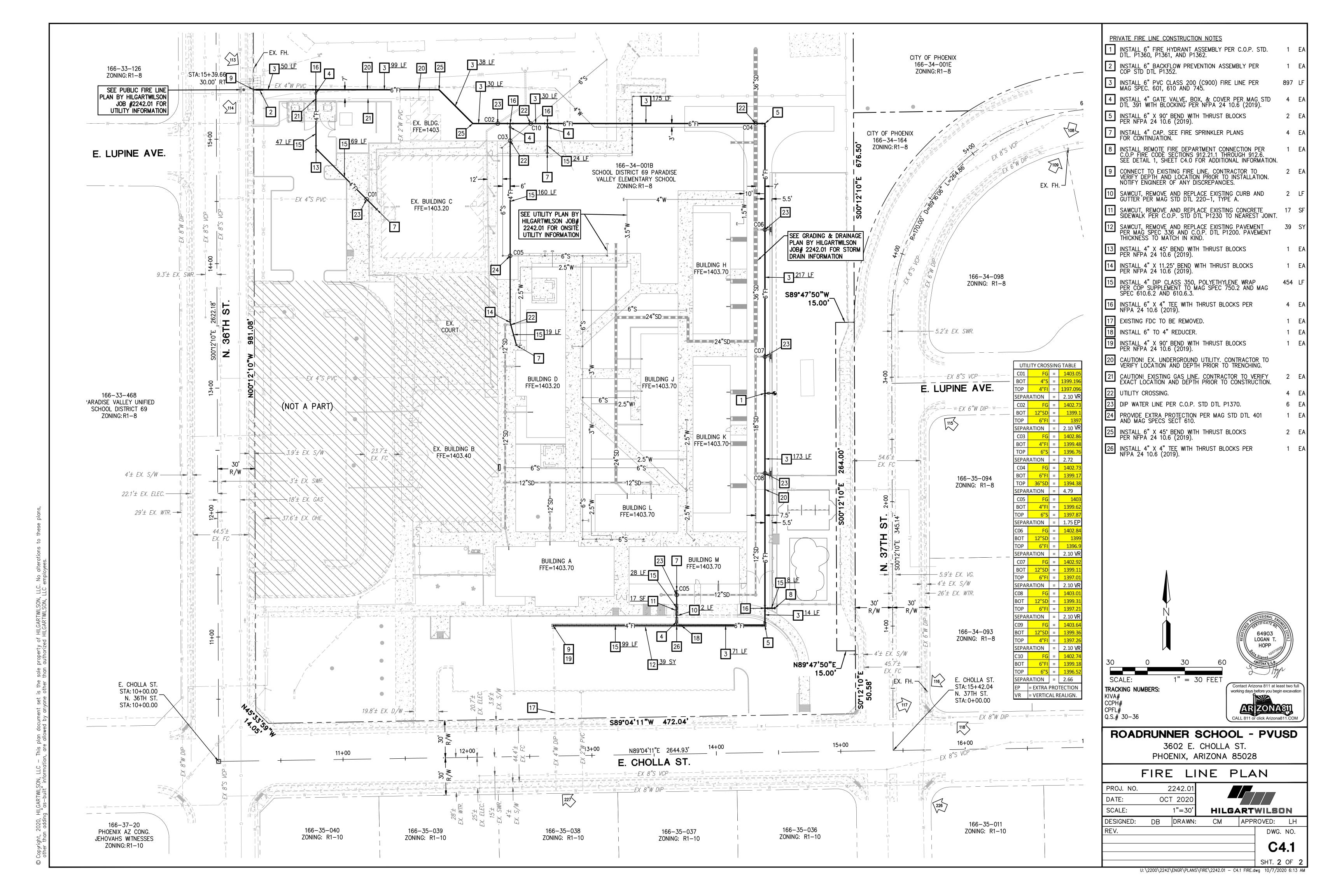
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#### STORM WATER MANAGEMENT PLAN **GENERAL NOTES (CITY OF PHOENIX)**

- A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (N.O.I.) AND THIS STORM WATER MANAGEMENT PLAN (SWMP). SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWMP SHALL BE CONSIDERED A PART OF THE SWMP.
- PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, AT (602) 262-7811.
- 3. THE OPERATOR SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY HEALTH DEPARTMENT AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.
- 4. THE OPERATOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY MONTH AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF OF AN INCH OR MORE. THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE SWMP CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE OPERATOR'S REPORT IS TO BE SUBMITTED TO THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR FOR REVIEW AND APPROVAL. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
- 5. THE OPERATOR SHALL AMEND THIS PLAN AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.
- THE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (N.O.T.) AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS. THE N.O.T. IS TO BE SUBMITTED TO THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR TO FINAL THE SWMP PERMIT.
- 7. THE PERMITTEE SHALL SAVE ALL RECORDS, INCLUDING THE N.O.I., SWMP, N.O.T., AND INSPECTION REPORTS, ON FILE FOR A MINIMUM OF THREE YEARS FROM THE DATE OF FILING THE N.O.T.
- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND THE N.O.T. IS SUBMITTED TO THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
- 9. THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- 10. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION. ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

Drainage Design Manual for Maricopa County

Erosion Control: Best Management Practices



Revegetation

**EC-7: Dust Control** 

#### DEFINITION

A comprehensive plan to limit offsite sediment depression by minimizing or controlling airborne

GENERAL INFORMATION
Applicability - Effectiveness Perimeter and Access Controls - high
Most effective when used with:
EC-5 Stabilized Construction Entrance
EC-6 Construction Road Stabilization
GH-6 Road Sweeping/Trackout Cleaning
Alternative BMPs:
For long term dust control, consider <u>SPC-6</u>

RATINGS			
Associated Costs	Н	M	L
Implementation			Х
Maintenance	Х		
Training			Х
Target Pollutants Removal	Н	M	L
Oil and Grease			Х
Nutrients			Х
Sediment	Х		
Floatable Material			Х
Metals		Х	
Other Construction Waste			Х

FIGURES	
Photos/Sketches	
EC-7 Dust Control Photos	
Tables	
Commonly Used Dust Suppressants	

#### RECOMMENDED STANDARDS AND SPECIFICATIONS

THERE ARE MANY PRODUCTS AVAILABLE AS DUST SUPPRESSANTS FOR CHEMICALS AVAILABLE AND RECOMMENDATIONS FOR THEIR USE ARE SUMMARIZED IN COMMONLY USED DUST SUPPRESSANTS TABLE.

#### RECOMMENDED MAINTENANCE AND INSPECTION

DUST CONTROL IS AN ONGOING PROCESS DURING SITE CONSTRUCTION. RE-APPLICATION OF DUST CONTROL MEASURE MAY BE NECESSARY UNTIL CONSTRUCTION IS COMPLETE.

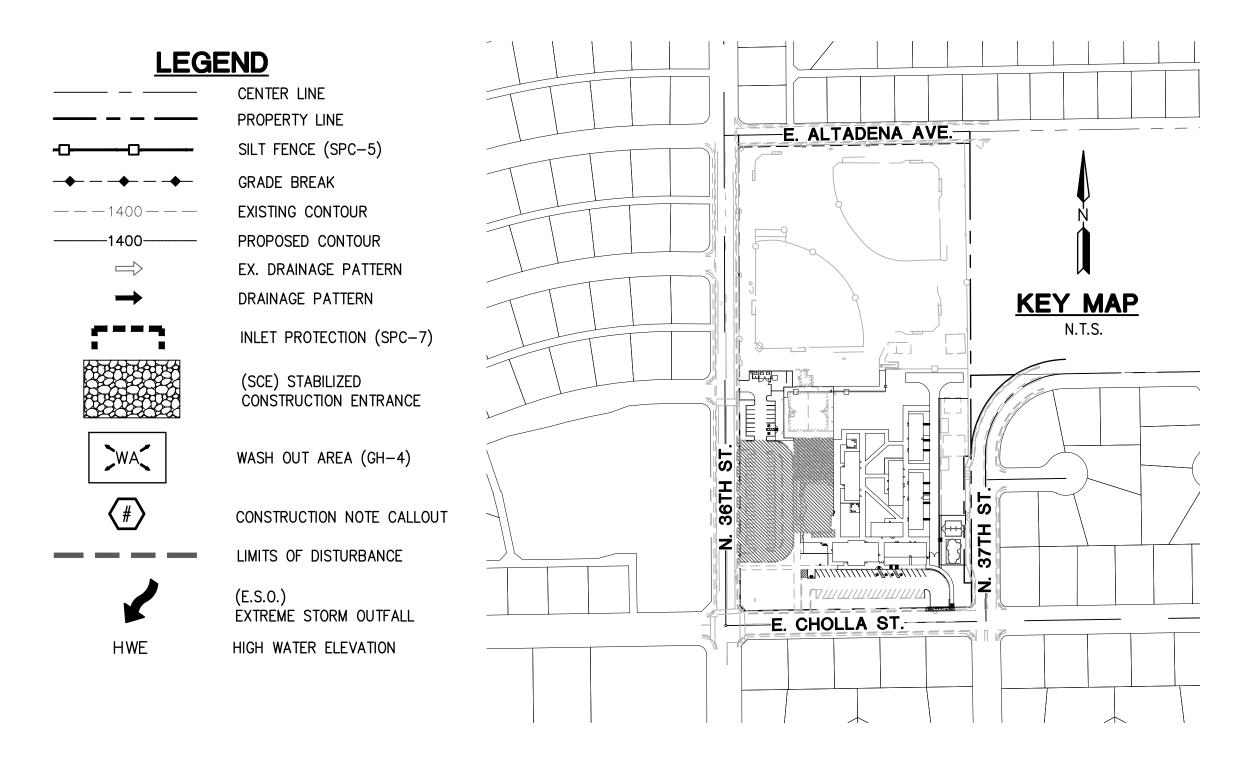
#### POST CONSTRUCTION METHODS

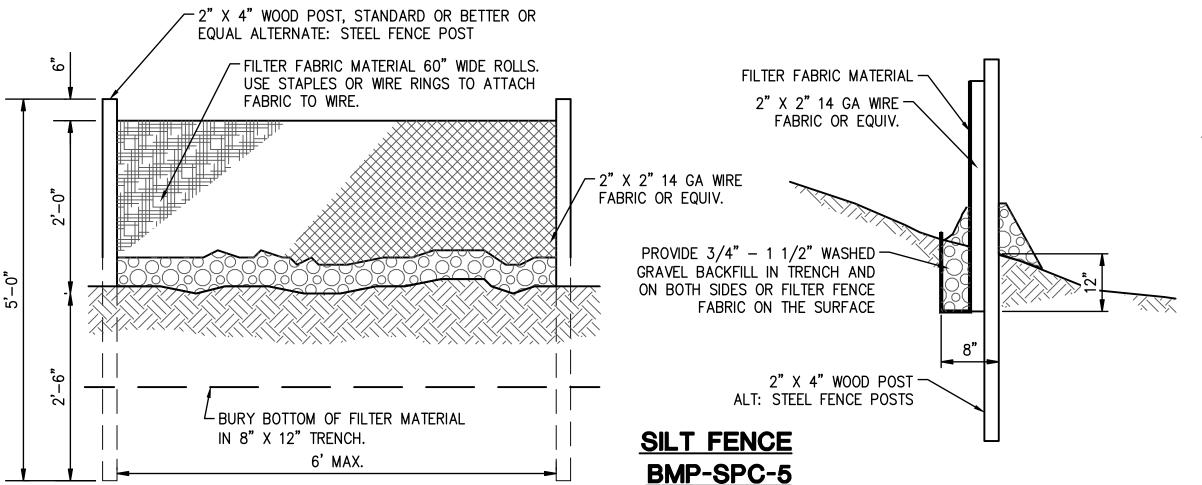
CONSIDER REVEGETATION OR EMULSION CHIP SEALS FOR MORE PERMANENT DUST CONTROL AFTER THE CONSTRUCTION PROJECT HAS BEEN COMPLETED.

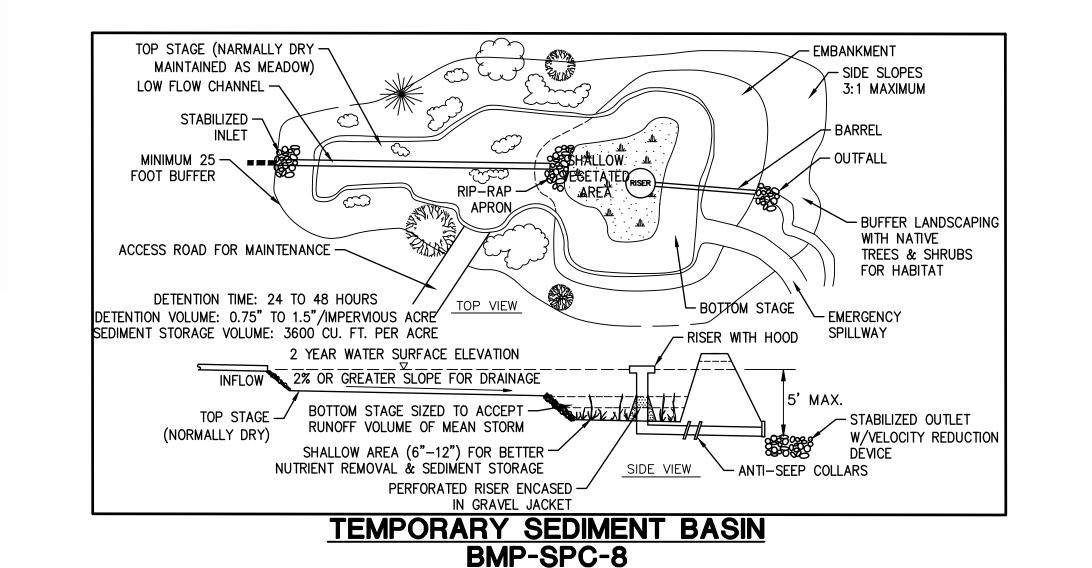
## STORM WATER MANAGEMENT PLAN ROADRUNNER SCHOOL - PVUSD

PHOENIX, ARIZONA 85028

A PORTION OF THE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA







#### SITE AREA

LOT AREA GROSS: 518,834 S.F. 11,91 ACRES LOT AREA NET: 473,586 S.F. 10.87 ACRES

#### **DISTURBED AREA** 154.354 3.54 ACRES

SHEET INDEX

C5.2

STORM WATER MANAGEMENT PLAN - COVER SHEET C5.1 STORM WATER MANAGEMENT PLAN

STORM WATER MANAGEMENT PLAN DETAILS

#### **OWNER ARCHITECT**

PARADISE VALLEY SCHOOL DISTRICT SPS+ ARCHITECTS, LLP 20621 N. 32ND ST. 8681 E. VIA DE NEGOCIO PHOENIX, ARIZONA 85050 PH: (602) 449-2260 CONTACT: LES THOMPSON

SCOTTSDALE, AZ 85258 PH: (480) 991-0800 FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

#### **BENCHMARK**

BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. CITY OF PHOENIX BENCHMARK ELEVATION: 1402.723'

DATUM: NGVD29

#### **BASIS OF BEARING**

E. CACTUS RD.

E. SHEA BLVD.

**VICINITY MAP** 

N.T.S.

**ENGINEER** 

1830 N. 95TH AVE. SUITE 110

PHOENIX, ARIZONA 85016

PHONE: (623) 248-3456

FAX: (602) 368-2436

CONTACT: LOGAN HOPP

HILGARTWILSON

E. CHOLLA ST.

BASIS OF BEARING IS S89'04'11'W ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA.

#### LEGAL DESCRIPTION

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

#### PROJECT DESCRIPTION

REMOVAL OF EXISTING BUILDING AND CONSTRUCTION OF 7 NEW BUILDINGS. NEW STORM DRAIN TO BE INSTALLED WITH NEW BUILDINGS.

#### FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COVERAGE FOR THE PROJECT ON FIRM PANEL 04013C1755L (FEMA, OCTOBER 16, 2013). ACCORDING TO THIS FIRM THE PROJECT RESIDES ENTIRELY WITHIN A FLOOD HAZARD ZONE X. FEMA DEFINES THIS FLOOD HAZARD ZONE AS FOLLOWS: AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN

FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

#### **AS-BUILT CERTIFICATION**

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR DATE

REGISTRATION NUMBER

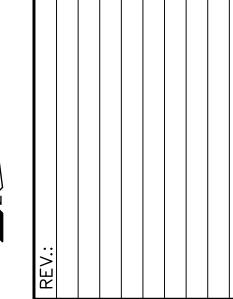
#### CITY OF PHOENIX

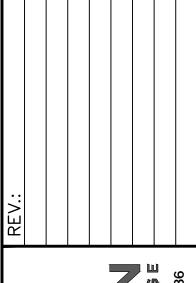
THESE PLANS HAVE BEEN APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT FOR THE ISSUANCE OF THE FOLLOWING PERMIT(S):

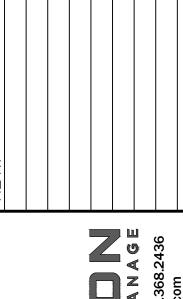
SWMP \_\_\_\_\_ PH \_\_\_\_ DATE \_\_\_\_\_

TRACKING NUMBERS: KIVA# XX-XXXX SDEV# XXXXXXX CPGD# XXXXXXX Q.S.# 30-36

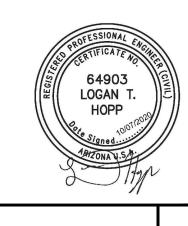
> Contact Arizona 811 at least two fu working days before you begin excavation











H S COVER

MANAGEMENT

WATER

STORM

DWG. NO.

U:\2200\2242\ENGR\PLANS\SWMP\2242.01 - C5.0 SWMP CVR.dwg 10/7/2020 6:34 A

#### **DEFINITION**

Procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems of watercourses.

GENERAL INFORMATION
Applicability - Effectiveness Inlet Drain Protection - high Debris Management, Cleanup, and Washou - high
Most effective when used with:
GH-1: Chemical Management
GH-3: Equipment Maintenance Procedures
GH-5: Spill Containment Plan
Alternative BMPs:

RATINGS			
Associated Costs	Н	M	L
Implementation		Х	
Maintenance		Х	
Training		Х	
Target Pollutants Removal	Н	M	L
Oil and Grease		Х	
Nutrients			Х
Sediment	4		Х
Floatable Material			Х
Metals		Х	
Other Construction Waste	Х		

#### RECOMMENDED STANDARDS AND SPECIFICATIONS

None

PCC AND AC WASTES

- PCC AND AC WASTE SHOULD NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES. INSTEAD, PCC AND AC WASTE SHOULD BE COLLECTED AND PROPERLY DISPOSED OF OUTSIDE THE HIGHWAY RIGHT-OF-WAY OR PLACED IN A TEMPORARY CONCRETE WASHOUT STRUCTURE.
- INSTALL A SIGN ADJACENT TO EACH TEMPORARY CONCRETE WASHOUT STRUCTURE TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE INSTALLED STRUCTURES.
- A FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHOULD MONITOR ONSITE CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING TO ENSURE PROPER METHODS ARE IMPLEMENTED
- SAW CUTTING RESIDUE SHOULD NOT BE ALLOWED TO FLOW ACROSS THE PAVEMENT, AND SHOULD NOT BE LEFT ON THE SURFACE OF THE PAVEMENT. VACUUM SLURRY RESIDUE AND DISPOSE IN A TEMPORARY FACILITY AND ALLOW SLURRY TO DRY. DISPOSE OF DRY SLURRY RESIDUE IN ACCORDANCE WITH GH-2: SOLID WASTE MANAGEMENT
- SIMILARLY, RESIDUE FROM GRINDING OPERATIONS SHOULD BE PICKED UP BY MEANS OF A VACUUM ATTACHMENT TO THE GRINDING MACHINE.

#### ONSITE TEMPORARY CONCRETE WASHOUT FACILITY PROCEDURES

- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES, UNLESS DETERMINED INFEASIBLE BY THE SITE SUPERVISOR. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR AND HAVE SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT
- PERFORM WASHOUT OF CONCRETE MIXER TRUCKS IN DESIGNATED AREAS ONLY. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
- WASH CONCRETE ONLY FROM MIXER TRUCK CHUTES INTO APPROVED CONCRETE WASHOUT FACILITY. WASHOUT MAY BE COLLECTED IN AN IMPERMEABLE BAG FOR DISPOSAL.

#### ABOVE GRADE TEMPORARY CONCRETE WASHOUT STRUCTURE

- ABOVE GRADE TEMPORARY CONCRETE WASHOUT STRUCTURES SHOULD HAVE A MINIMUM LENGTH AND WIDTH OF 10 FEET OR LARGER TO PROVIDE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. IF DEEMED NECESSARY, THE LENGTH AND WIDTH OF THE WASHOUT STRUCTURE MAY BE EXPANDED FOR MORE CAPACITY.
- STRAW BALES, WOOD STAKES, AND SANDBAG MATERIALS SHOULD CONFORM TO THE SPECIFICATIONS IN SPC-1: ORGANIC FILTER BARRIER AND SPC-2: SAND BAG BARRIER.
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10-MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

#### BELOW GRADE TEMPORARY CONCRETE WASHOUT STRUCTURE

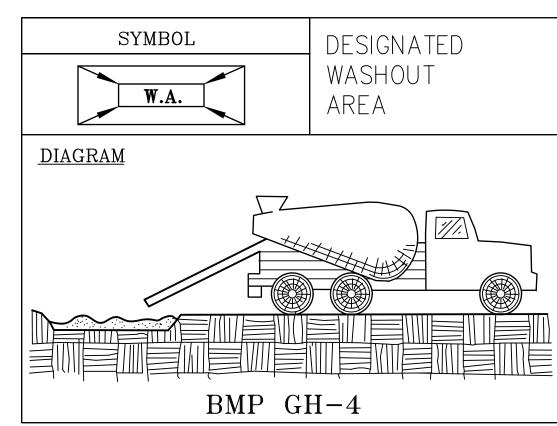
- BELOW GRADE TEMPORARY CONCRETE WASHOUT SHOULD HAVE A MINIMUM LENGTH AND WIDTH OF 10 FEET OR LARGER TO PROVIDE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. IF DEEMED NECESSARY, THE LENGTH AND WIDTH OF THE WASHOUT STRUCTURE MAY BE EXPANDED FOR MORE CAPACITY.
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10-MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- ENSURE THAT THE SOIL BASE IS FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE PLASTIC LINING MATERIAL

#### REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES

- WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, AS DETERMINED BY THE SITE SUPERVISOR, HARDENED CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF IN ACCORDANCE WITH GH-2: SOLID WASTE
- HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED.

#### RECOMMENDED MAINTENANCE AND INSPECTION

• MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES AT LEAST WEEKLY. • MONITOR CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING TO ENSURE PROPER METHODS ARE



**DESIGNATED WASHOUT AREA** BMP GH-4

Drainage Design Manual for Maricopa County

Erosion Control: Best Management Practices

H M

H M L

## SPC-7: Storm Drain Inlet

#### DEFINITION

A variety of methods of intercepting sediment at low point inlets through the use of stone, filter fabric, inlet inserts, and other materials. This is normally located at the inlet, providing either detention or filtration to reduce sediment and floatable materials in stormwater

RATINGS

**Associated Costs** 

Implementation

Maintenance

Oil and Grease

Floatable Material

Other Construction Waste

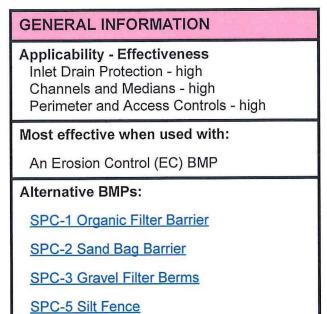
Nutrients

Sediment

Metals

Target Pollutants Removal

Training



#### RECOMMENDED STANDARDS AND SPECIFICATIONS

INSTALL INLET PROTECTION IN ACCORDANCE WITH THE FOLLOWING:

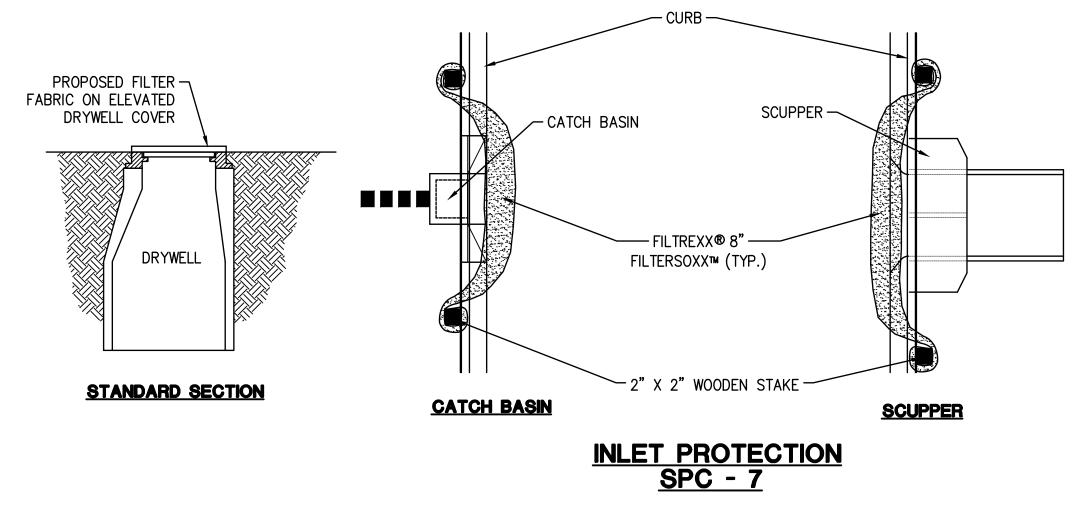
- FILTER FABRIC FENCE: PLACE 2 INCH BY 2 INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8 INCHES INTO THE GROUND. EXCAVATE A TRENCH APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES. STAPLE THE FILTER FABRIC (FOR MATERIAL SPECIFICATIONS, SEE SPC-5: SILT FENCE TO WOODEN STAKES SO THAT 32 INCHES OF THE FABRIC EXTENDS OUT AND CAN BE FORMED INTO THE TRENCH. USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2 INCH IN LENGTH. BACKFILL THE ENTIRE TRENCH WITH 3/4 INCH OR LESS WASHED GRAVEL.
- EXCAVATED DROP INLET SEDIMENT TRAP: CONSTRUCT THE INLET TRAP AS SHOWN IN THE STORM DRAIN DROP INLET PROTECTION DRAWING. ENSURE THAT THE EXCAVATION VOLUME CAN CONTAIN APPROXIMATELY 1800 TO 3600 CUBIC FEET PER ACRE OF DISTURBED AREA.
- GRAVEL BAG FILTER: IF THERE IS A HIGH CONTENT OF CLAYS AND SILTS, USE FILTER FABRIC IN CONJUNCTION WITH GRAVEL FOR ADDITIONAL FILTERING CAPACITY. CONSTRUCT THE GRAVEL BAG FILTER AS SPECIFIED BY GRAVEL FILTER BERMS.
- FOAM OR FIBER ROLL BARRIER: FOAM OR FIBER ROLL IS PLACED AROUND THE INLET AND MUST BE ANCHORED TO THE CURB SURFACE, SO THAT IT IS NOT CARRIED AWAY BY RUNOFF FLOWS.

#### RECOMMENDED MAINTENANCE AND INSPECTION

FOR SYSTEMS USING FILTER FABRIC, INSPECTIONS SHOULD BE MADE ON A REGULAR BASIS, ESPECIALLY AFTER LARGE STORM EVENTS. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY HALF THE HEIGHT OF THE FENCE. IF AN EXCAVATED INLET SEDIMENT TRAP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY HALF THE DEPTH OF THE HOLE.

#### POST CONSTRUCTION METHODS

FOLLOWING THE COMPLETION OF CONSTRUCTION PROJECTS IN RESIDENTIAL AND MUNICIPAL AREAS, MORE PERMANENT DROP-INLET PROTECTION DEVICES CAN BE INSTALLED IN STORM DRAIN INLETS. THE LINK UNDER THE VENDOR PRODUCTS SECTION LISTS SEVERAL DIFFERENT DROP-INLET PROTECTION DEVICES.



**FILTREXX FILTER** SPC-7

Drainage Design Manual for Maricopa County

**GENERAL INFORMATION** 

Erosion Control: Best Management Practices

## EC-5

## EC-5: Stabilized Construction

#### DEFINITION

A stabilized pad of aggregate underlain with filter cloth located at any point where traffic will be entering or exiting a construction site to or from a public right-of-way, street, alley, sidewalk or parking area. For added effectiveness, a wheel wash or wash rack area can be incorporated into the design to further reduce sediment tracking.

Applicability - Effectiveness Perimeter and Access Controls - high  Most effective when used with:  EC-6 Construction Road Stabilization  EC-7 Dust Control  GH-6 Road Sweeping/Trackout Cleaning  Alternative BMPs:  GH-4 Designated Washdown Areas — wheel wash is especially useful with clay soils.	
EC-6 Construction Road Stabilization  EC-7 Dust Control  GH-6 Road Sweeping/Trackout Cleaning  Alternative BMPs:  GH-4 Designated Washdown Areas – wheel	
EC-7 Dust Control  GH-6 Road Sweeping/Trackout Cleaning  Alternative BMPs:  GH-4 Designated Washdown Areas – wheel	Most effective when used with:
GH-6 Road Sweeping/Trackout Cleaning  Alternative BMPs:  GH-4 Designated Washdown Areas – wheel	EC-6 Construction Road Stabilization
Alternative BMPs:  GH-4 Designated Washdown Areas – wheel	EC-7 Dust Control
GH-4 Designated Washdown Areas – wheel	GH-6 Road Sweeping/Trackout Cleaning
	Alternative BMPs:

RATINGS			
Associated Costs	Н	M	L
Implementation		Х	
Maintenance		Х	
Training			Х
Target Pollutants Removal	Н	M	L
Oil and Grease			Х
Nutrients			Х
Sediment		Х	
Floatable Material			Х
Metals		Х	
Other Construction Waste			Х

RECOMMENDED STANDARDS AND SPECIFICATIONS STABILIZED CONSTRUCTION ENTRANCES ALONE ARE NOT VERY EFFECTIVE IN REMOVING SEDIMENT FROM EQUIPMENT LEAVING A CONSTRUCTION SITE. EFFICIENCY IS GREATLY INCREASED, THOUGH, WHEN A WASHING RACK IS INCLUDED AT THE POINT OF EGRESS.

#### DESIGN AND SIZING CONSIDERATIONS

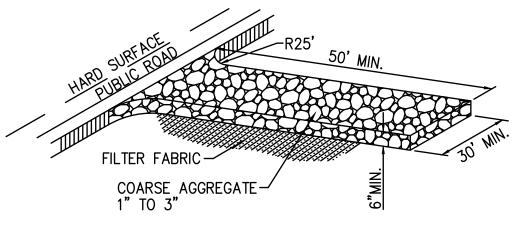
THE AGGREGATE FOR STABILIZED CONSTRUCTION ENTRANCE APRONS SHOULD HAVE A NOMINAL DIAMETER OF 1TO 3 INCHES IN SIZE, WASHED, WELL-GRADED GRAVEL OR CRUSHED ROCK. THE APRON DIMENSIONS RECOMMENDED ARE 30 FEET BY 50 FEET AND 6 INCHES

- •THE ENTRANCE MUST BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- •INSTALL A WASHRACK AT GROUND ELEVATION.
- ·WHEN WASH AREAS ARE PROVIDED, WASHING SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO A PROPERLY CONSTRUCTED SEDIMENT TRAP OR BASIN (POND).

#### RECOMMENDED MAINTENANCE AND INSPECTION

- ·INSPECT MONTHLY AND AFTER EACH RAINFALL
- •REPLACE GRAVEL MAT WHEN SURFACE VOIDS ARE NO LONGER VISIBLE. PERIODIC TOP DRESSING WITH ADDITIONAL STONE WILL BE REQUIRED.
- •ALL SEDIMENTS DEPOSITED ON PAVED ROADWAYS MUST BE REMOVED WITHIN 24 HOURS.
- •REMOVE GRAVEL AND FILTER FABRIC UPON COMPLETION OF CONSTRUCTION.

NOTE: IF WORKING ON A PROJECT THAT IS SUBJECT TO A MARICOPA COUNTY DUST CONTROL PERMIT UNDER RULE 310, FOLLOW THE PERMIT REQUIREMENTS FOR STABILIZED CONSTRUCTION ENTRANCE DESIGN AND SIZING.



#### **STABILIZED CONSTRUCTION ENTRANCE** BMP EC-5



TRACKING NUMBERS: KIVA# XX-XXXX SDEV# XXXXXXX CPGD# XXXXXXX Q.S.# 30-36



#### ROADRUNNER SCHOOL - PVUSD 3602 E. CHOLLA ST. PHOENIX, ARIZONA 85028

STORM WATER MANAGEMENT PLAN DETAILS

STOKM	WAIER MAIN	AGEMENT	FLAN	DETAIL
PROJ. NO.	2242.01			
DATE:	OCT 2020			

SCALE: HILGARTWILSON DRAWN: APPROVED: **DESIGNED:** 

DWG. NO. **C5.2** 

SHT. **3** OF U:\2200\2242\ENGR\PLANS\SWMP\2242.01 - C5.2 SWMP DTLS.dwg 10/7/2020 6:35 AM

- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES. AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION. AS PREPARED BY RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC., PHONE NO. (480) 921-8100, PROJECT NO. 26796, DATED SEP 23, 2020.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, EXISTING SITE IMPROVEMENTS,
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS. RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- 10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY. AND ARE NO RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION. OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- . ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- 5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- . FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, RIP RAP,
- 17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.

HILGARTV "as-buil	THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.			
g, E	UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED	
yright,2020, than adding	SOUTHWEST GAS CORPORATION	CONFLICT REVIEW	10/07/20	
nt,2 n a	COX COMMUNICATIONS	TRAFFIC MGMT. CENTER	10/07/20	
yrigl tha	ARIZONA PUBLIC SERVICE	CONFLICT REVIEW	10/07/20	
do:	CENTURY LINK	CONFLICT REVIEW	10/07/20	
oth oth	SALT RIVER PROJECT	CONFLICT REVIEW	10/07/20	

#### FIRE LINE GENERAL NOTES (C.O.P.) 1. ALL CONSTRUCTION IN CITY OF PHOENIX R.O.W. IS TO CONFORM

#### TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.

PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (602) 262-7811

IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRE LINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING AND DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES DEPARTMENT.

THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:

390 CURB STOP WITH FLUSHING PIPE

391-1 VALVE BOX INSTALLATION

346 FIRE LINE DETECTOR CHECK VAULT

- (8") X 2" TAPPED CAP WITH 2" CORP. STOP AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.
- FIRE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA - MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTERS SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC - FCCCHR), PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.
- BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT-OF-WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHOENIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.
- 10. IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.
- 11. LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTER AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM, PER UPC 603.3.11.
- 12. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL
- 13. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX R.O.W., WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.
- 14. MINIMUM COVERAGE OVER THE TOP OF PIPE SHALL BE FOUR (4) FEET IF THE MAIN IS LOCATED IN A MAJOR STREET OR THE MAIN IS 12" OR LARGER. OTHERWISE, THREE (3) FEET OF COVER OVER THE TOP OF THE PIPE IS REQUIRED.
- 15. COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601, 95% MINIMUM IN A PUBLIC STREET.
- 16. A PAVEMENT CUT SURCHARGE MAY BE ASSESSED ON THIS PROJECT FOR NEW PAVEMENT CUTS FOR TRENCHING IN NEW ASPHALT PAVEMENT
- 17. APPROVAL OF THESE PLANS SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE OR OTHER HEALTH/SAFETY ISSUE.
- 18. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION. ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

20 10 0

SCALE:

## PUBLIC FIRE LINE PLAN ROADRUNNER SCHOOL - PVUSD

#### PHOENIX, ARIZONA 85028

1" = 100 FEE

S89°04'11"W 472.04'

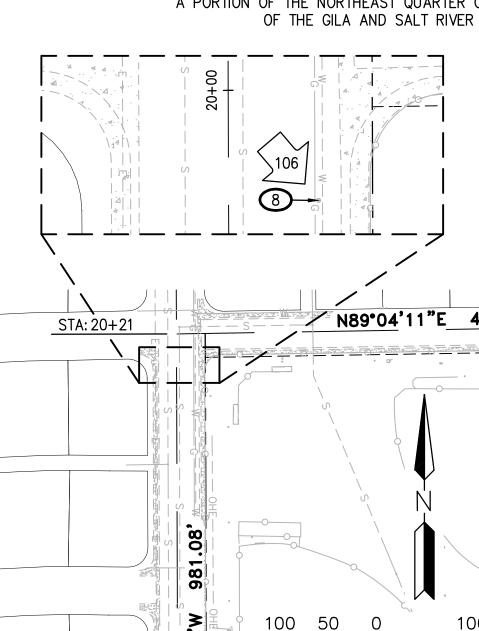
-E. CHOLLA ST.

→ 3.8'± EX. S/W

- W*EX 4"W PVC-* w

STA: 15+39.66 30.00' RT

A PORTION OF THE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



LUPINE

E. CHOLLA ST.

STA: 10+00.00

N. 36TH ST.

STA: 10+00.00

| 4'± EX. S/W →

261 SY (4)

20

1" = 20 FEET

**い** 

(NOT A PART)

STA: 15+39.66 22.04' RT

STA: 15+39.66 5 19.54' RT 7

့က ∣

22.1'±

LEX. ELEC.

EX. WTR.

18'±

EX. OHE.

### LEGAL DESCRIPTION

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

### ASSESSORS PARCEL NUMBER

166-34-001B

E. ALTADENA AVE.

### **ARCHITECT**

SPS+ ARCHITECTS, LLP 8681 E. VIA DE NEGOCIO SCOTTSDALE, AZ 85258 PH: (480) 991-0800

PARADISE VALLEY SCHOOL DISTRICT

#### **ENGINEER**

HILGARTWILSON 1830 N. 95TH AVE. SUITE 110 PHOENIX, ARIZONA 85016 PHONE: (623) 248-3456 FAX: (602) 368-2436 CONTACT: LOGAN HOPP

LOT AREA GROSS:

473.586 S.F. 10.87 ACRES

### PUBLIC FIRE LINE CONSTRUCTION NOTES

- OR REPLACE IN KIND, WHICHEVER IS GREATER.
- PAVEMENT RESTORATION. CRACK/MICRO SEAL 25' EACH SIDE OF TRENCH, CUT FROM EDGE OF PAVEMENT TO MEDIAN, PER C.O.P. STREET PAVEMENT CUT POLICY.
- 5 CONNECT TO EXISTING WATERLINE. CONTRACTOR TO VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 7 INSTALL 8"X6" TAPPING SLEEVE AND VALVE, BOX AND COVER PER MAG STD DTL 340, C.O.P. STD DTL P1391 AND MAG SPECIFICATIONS SUBSECTION 630.4.2(A)(1). CONTRACTOR TO VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

- CAUTION! EXISTING GAS LINE. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH PRIOR TO CONSTRUCTION. CAUTION! EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO TRENCHING. E. LUPINE AVE.

LINE TABLE

LENGTH

15.00'

15.00'

50.58

14.05

NO. DIRECTION

L1 | S89°47'50"W

L2 N89°47'50"E

L3 | S00°12'10"E

FIRE HYDRANT

WATER VALVE

WATER METER

CONCRETE

WATER BACKFLOW PREVENTER

SANITARY SEWER MANHOLE

ASPHALT PAVEMENT

EXISTING BUILDING

RIGHT OF WAY LINE

CHAIN LINK FENCE

EX. ELECTRICAL LINE

EX. OVERHEAD ELECTRICAL

EX. WATER LINE

EX. SEWER LINE

EX. GAS LINE

**BOUNDARY LINE** 

SECTION LINE

L4 N45°33'59"W

E. CHOLLA ST.

STA: 15+42.04

N. 37TH ST.

STA: 0+00.00

**LEGEND** 

——— — F — — ——

\_\_\_\_ \_ OHE\_ \_ \_\_\_

20621 N. 32ND ST.

PH: (602) 449-2260

PHOENIX, ARIZONA 85050

CONTACT: LES THOMPSON

**OWNER** 

FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

#### SITE AREA

LOT AREA NET:

518,834 S.F. 11.91 ACRES

- 1 SAWCUT, REMOVE AND REPLACE EXISTING PAVEMENT PER MAG SPEC 336 AND C.O.P. DTL P1200 TYPE B,
- SAWCUT, REMOVE AND REPLACE EXISTING CURB AND GUTTER PER MAG STD DTL 220-1, TYPE A.

- 6 INSTALL 6"X2" TAPPED CAP AND BALL VALVE WITH PRESSURE RATING OF 300 PSI OR GREATER. CONTRACTOR TO CONNECT AT STUB FOR ONSITE FIRE LINE.
- 8 SHUTDOWN EXISTING WATER VALVES NUMBER 114 & 106 PRIOR TO 8" DIP CONNECTION. OPEN VALVES WHEN INSTALLATION WORK IS COMPLETED

### **BENCHMARK**

DATUM: NGVD29

E. CHOLLA ST.

BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA CITY OF PHOENIX BENCHMARK ELEVATION: 1402.723'

E. CACTUS RD.

#### PROJECT DESCRIPTION

CONSIST OF REMOVAL OF EXISTING FDC AND NEW FDC, NEW 6" CONNECTION IN 37TH ST. AND NEW 6" LOOP AROUND SITE WITH 4" BUILDING CONNECTIONS.

#### FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COVERAGE FOR THE PROJECT ON FIRM PANEL 04013C1755L (FEMA, OCTOBER 16, 2013). ACCORDING TO THIS FIRM THE PROJECT RESIDES ENTIRELY WITHIN A FLOOD HAZARD ZONE X. FEMA DEFINES THIS FLOOD HAZARD ZONE AS FOLLOWS: AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE

#### **BASIS OF BEARING**

BASIS OF BEARING IS S89°04'11'W ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 3 NORTH. RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN

## APPROVED FOR:

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

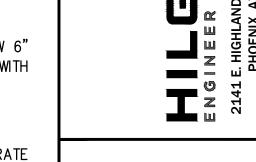
DATE

CPFL# Q.S.# 30-36

Contact Arizona 811 at least two fu working days before you begin excavation

E. SHEA BLVD. VICINITY MAP

DATE



### 64903 LOGAN T HOPP

MARICOPA COUNTY, ARIZONA.

## THE CITY OF PHOENIX

PLANNING AND DEVELOPMENT DEPARTMENT

#### **AS-BUILT CERTIFICATION**

REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NUMBER

TRACKING NUMBERS:

CCPH#

DWG. NO.

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U:\2200\2242\ENGR\PLANS\PUBLIC FIRE\2242.01 - C6.0 FIRE.dwg 10/7/2020 5:52 AM

- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL EVALUATION, AS PREPARED BY RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC., PHONE NO. (480) 921-8100, PROJECT NO. 26796, DATED SEP 23, 2020.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, EXISTING SITE IMPROVEMENTS,
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING. PRIOR TO COMMENCEMENT OF GRADING. PAVING. CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- 10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- 12. ANY INSPECTION BY THE CITY. COUNTY. ENGINEER. OR OTHER JURISDICTIONAL AGENCY. SHALL NOT. IN ANY WAY. RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- 13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- 14. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- 16. FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, RIP RAP,
- 17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.

as-buil	THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.			
<b>"</b> О	UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED	
addin	SOUTHWEST GAS CORPORATION	CONFLICT REVIEW	10/07/20	
,	COX COMMUNICATIONS	TRAFFIC MGMT. CENTER	10/07/20	
than	ARIZONA PUBLIC SERVICE	CONFLICT REVIEW	10/07/20	
other	CENTURY LINK	CONFLICT REVIEW	10/07/20	
of (	SALT RIVER PROJECT	CONFLICT REVIEW	10/07/20	

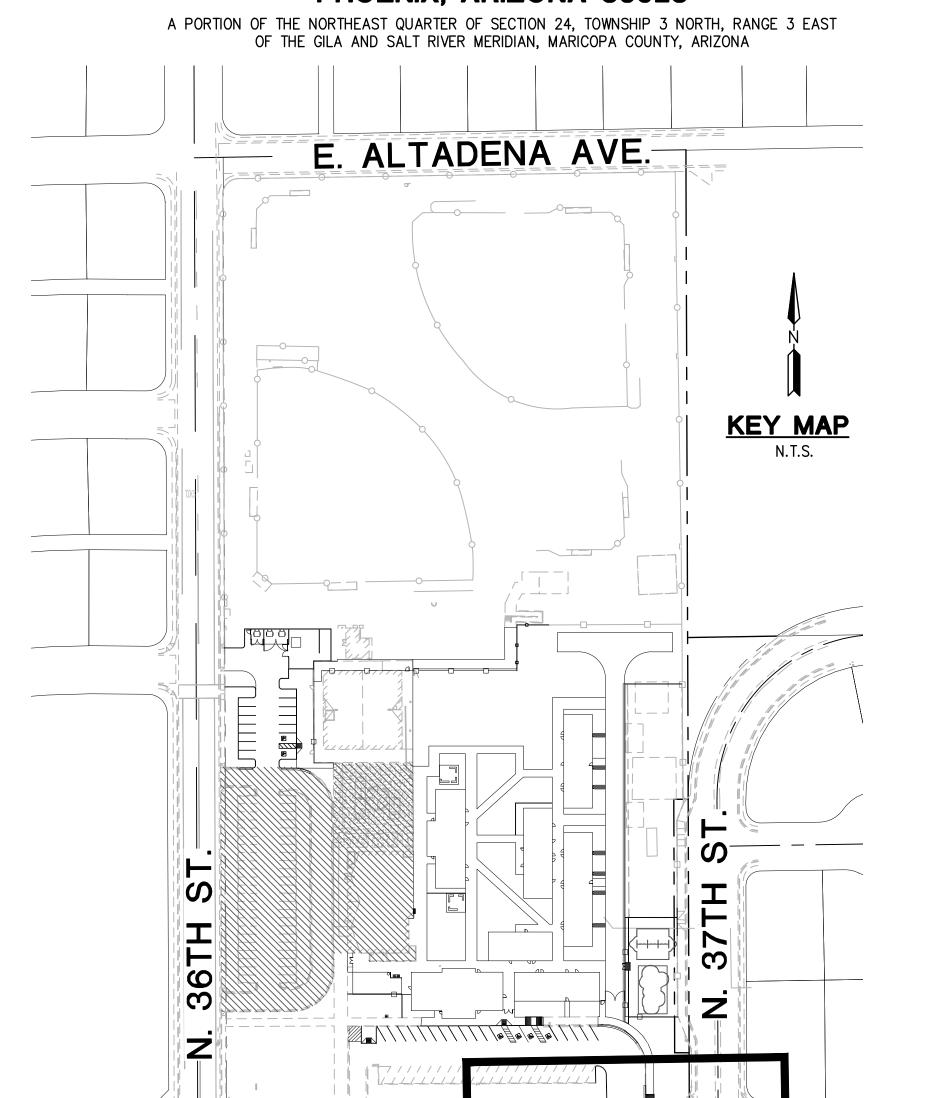
#### NOTES FOR PAVING PLANS C.O.P.

1. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.

- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES. IN ADDITION. THE PROPERTY OWNER MUST DEDICATE STREETS IN ACCORDANCE WITH MINIMUM RIGHT-OF-WAY STANDARDS MAP (ORDINANCE NO. 437, LATEST AMENDMENT).
- 4. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.
- THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP. 602-262-7811 VOICE OR 602-534-5500 TTY. SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED. AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 10. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 11. ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- 12. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
- 13. THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS. AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- 14. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- 15. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- 16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL OFFSITE IMPROVEMENTS ARE COMPLETED.
- 17. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT. THE PERMIT HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS & RECREATION DEPARTMENT PRIOR TO ANY RIGHT-OF-WAY PLANT RELOCATIONS AT 602-262-6862.
- 18. THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 602-534-5500 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING &
- 19. A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
- 20. CONSTRUCTION MUST BE PHASED SO THE NEWLY ALIGNED CHANNEL IS FULLY OPERATIONAL BEFORE THE EXISTING DRAINAGE CHANNEL IS FILLED. FLOODWATER CONVEYANCE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- 21. BEFORE GRADING IN AREAS CONTAINING NATIVE DESERT VEGETATION, THE CONTRACTOR MUST OBTAIN A PERMIT FROM ARIZONA DEPARTMENT OF AGRICULTURE. FOR INFORMATION, PLEASE DIAL 602-255-4933/542-0994 VOICE OR 602-534-5500 TTY.
- 22. THIS PROPERTY IS ADJACENT TO THE PHOENIX MOUNTAIN PRESERVE, NO DISTURBANCE OF PRESERVE PROPERTY FOR ACCESS, GRADING, OR OTHER CONSTRUCTION PURPOSES WILL BE ALLOWED. THE CONTRACTOR IS REQUIRED TO DELINEATE THE MOUNTAIN PRESERVE BOUNDARY WITH A FENCE OR OTHER ACCEPTABLE METHOD.
- 23. THIS SITE HAS SPECIAL PRESERVATION OR HILLSIDE ISSUES. THE PAVING PLAN MUST SHOW ALL LANDSCAPE PRESERVATION EASEMENTS, CONSTRUCTION FENCING LOCATIONS, AND APPROPRIATE AREAS LABELED. PRIOR TO ANY CLEARING, GRUBBING, OR GRADING OPERATIONS CONSTRUCTION FENCING SHALL BE SHOWN ON APPROVED PLANS, PERMITTED AND INSPECTED AND SALVAGE OPERATIONS PERMITTED, INSPECTED, AND COMPLETED.

## PAVING PLAN ROADRUNNER SCHOOL - PVUSD

PHOENIX, ARIZONA 85028



E. CHOLLA ST.

**OWNER** 

PARADISE VALLEY SCHOOL DISTRICT 20621 N. 32ND ST. PHOENIX, ARIZONA 85050 PH: (602) 449-2260 CONTACT: LES THOMPSON

**ARCHITECT** 

SPS+ ARCHITECTS, LLP 8681 E. VIA DE NEGOCIO SCOTTSDALE, AZ 85258 PH: (480) 991-0800 FAX: (480) 991-2623 CONTACT: DARLENE CADMAN

**ENGINEER** 

UTILITY POLE

ELECTRIC TRANSFORMER

LIGHT POLE W/ARM

ELECTRIC PANEL

LIGHT POLE

SIGN

BOLLARD

GRATE

GRATE

FIRE HYDRANT

WATER VALVE

WATER METER

GAS RISER

GAS METER

CONCRETE

WATER STUB OUT

SEWER CLEAN OUT

**ASPHALT PAVEMENT** 

EXISTING BUILDING

**BOUNDARY LINE** 

EASEMENT LINE

SECTION LINE

CENTER LINE

PARCEL LINE

RIGHT OF WAY LINE

CHAIN LINK FENCE

EX. STORM DRAIN

WROUGHT IRON FENCE

EX. CABLE TELEVISION

EX. ELECTRICAL LINE

EX. OVERHEAD ELECTRICAL

EX. WATER LINE

EX. SEWER LINE

EX. GAS LINE

\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

---- OHE---

FLAG POLE

**ELECTRIC CABINET** 

TELEPHONE PEDESTAL

CABLE TV PEDESTAL

FIBER OPTIC PULL BOX

STORM DRAIN MANHOLE

IRRIGATION CONTROL VALVE

FIRE DEPARTMENT CONNECTION

WATER BACK FLOW PREVENTER

SANITARY SEWER MANHOLE

**LEGEND** 

HILGARTWILSON 1830 N. 95TH AVE. SUITE 110 PHOENIX, ARIZONA 85016 PHONE: (623) 248-3456 FAX: (602) 368-2436 CONTACT: LOGAN HOPP

### FOUND BRASS CAP IN HAND HOLE

GUY ANCHOR PAVING PLAN ELECTRIC METER ELECTRIC VAULT

ELECTRIC PULL BOX **BENCHMARK** BENCHMARK IS A FOUND 3" CITY OF PHOENIX BRASS CAP IN HAND

> **ELEVATION: 1402.723'** DATUM: NGVD29

LOCATED IN A PORTION OF THE NORTHEAST QUARTER OF SECTION

PROJECT DESCRIPTION

UPDATING OF EXISTING DRIVEWAY ON EAST CHOLLA STREET.

#### FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COVERAGE FOR THE PROJECT ON FIRM PANEL 04013C1755L (FEMA, OCTOBER 16, 2013). ACCORDING TO THIS FIRM THE PROJECT RESIDES ENTIRELY WITHIN A FLOOD HAZARD ZONE X. FEMA DEFINES THIS FLOOD HAZARD ZONE AS FOLLOWS:

AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AND AREAS

#### **AS-BUILT CERTIFICATION**

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NUMBER

#### CITY OF PHOENIX

THESE PLANS HAVE BEEN APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT FOR THE ISSUANCE OF THE FOLLOWING PERMIT(S):

PAVING \_\_\_\_\_ PH \_\_\_\_ DATE \_\_\_\_\_

# E. CACTUS RD. E. CHOLLA ST. E. SHEA BLVD. **VICINITY MAP**

### SHEET INDEX

PAVING PLAN - COVER SHEET

#### **BASIS OF BEARING**

BASIS OF BEARING IS S89°04'11'W ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA.

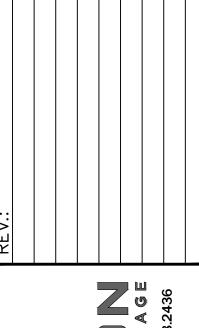
HOLE, DOWN 12", LOCATED AT THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA. CITY OF PHOENIX BENCHMARK

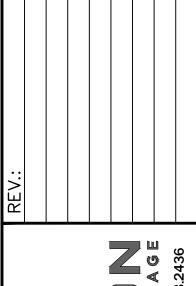
### **LEGAL DESCRIPTION**

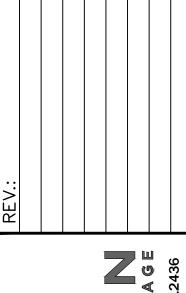
24, TOWNSHIP 3 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

DATE

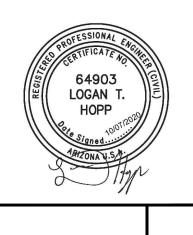










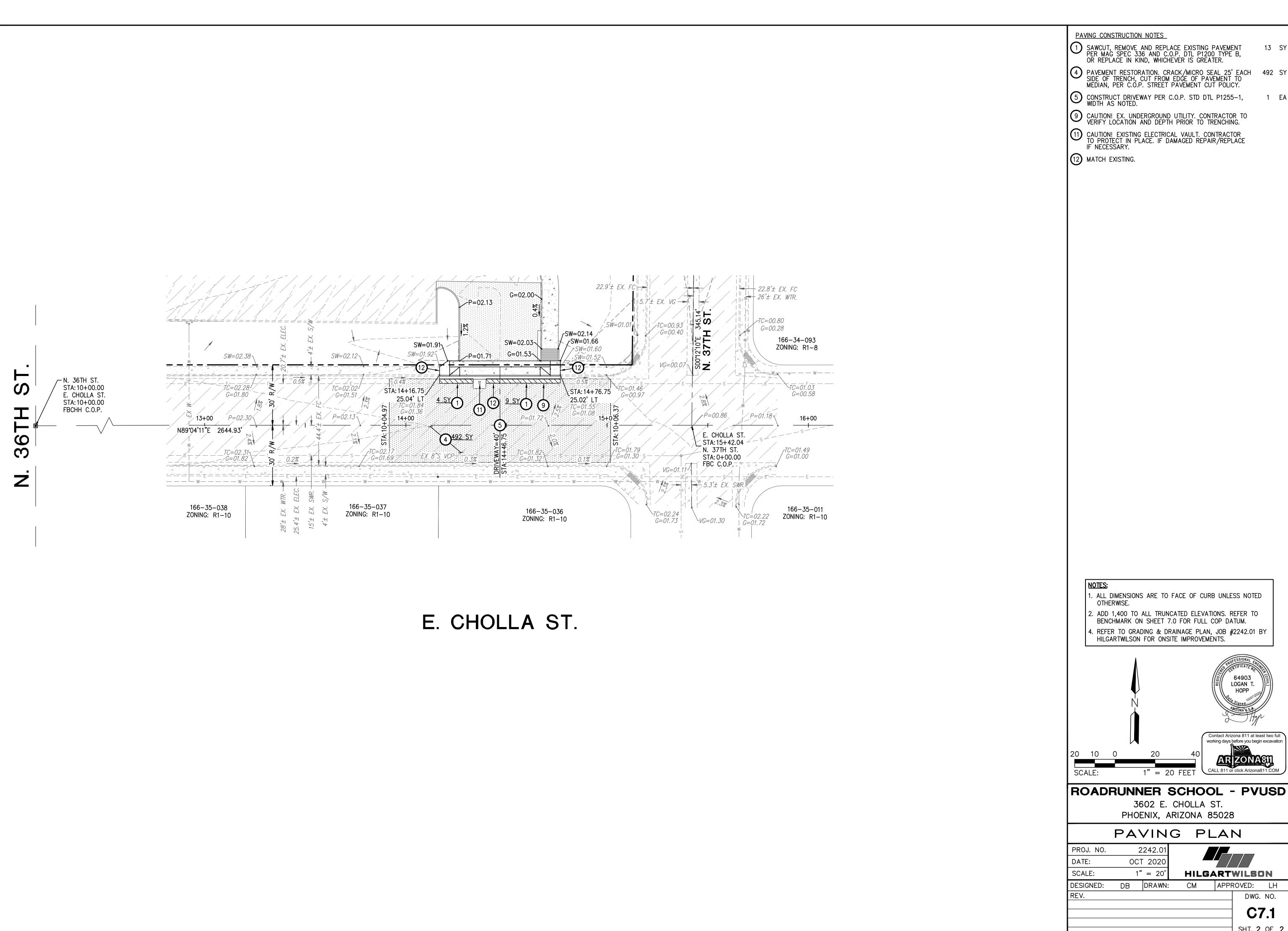


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 $\Box$ 

DWG. NO. **1** OF

U:\2200\2242\ENGR\PLANS\PAVING\2242.01 - C7.0 CVR.dwg 10/7/2020 6:44 AM



SHT. 2 OF 2 U:\2200\2242\ENGR\PLANS\PAVING\2242.01 - C7.1 PAV.dwg 10/7/2020 6:44 AM

HILGARTWILSON

APPROVED: LH

DWG. NO.

C7.1

Contact Arizona 811 at least two full working days before you begin excavation

13 SY